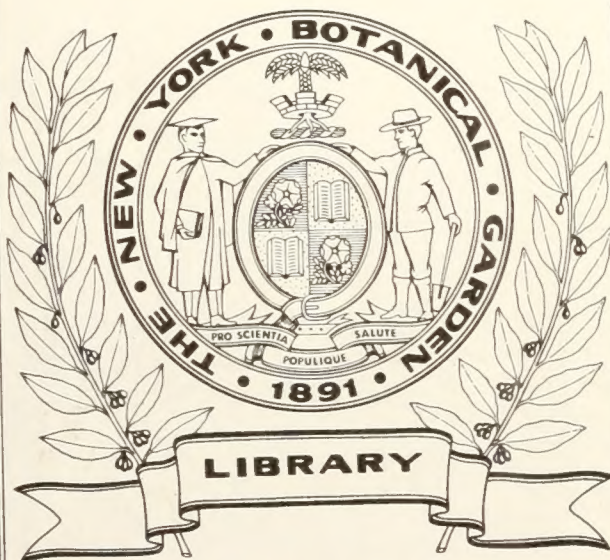


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vol. 29
1919



HORTICULTURE

Vol. XXIX

JANUARY 4, 1919

No. 1

Grafted Roses

This winter we shall graft on manetti and propagate extensively all of the worth-while Greenhouse Roses for the commercial grower.

No doubt you are planning to get in line for the Big Business of next year and will want to replant at least a portion of your Rose section.

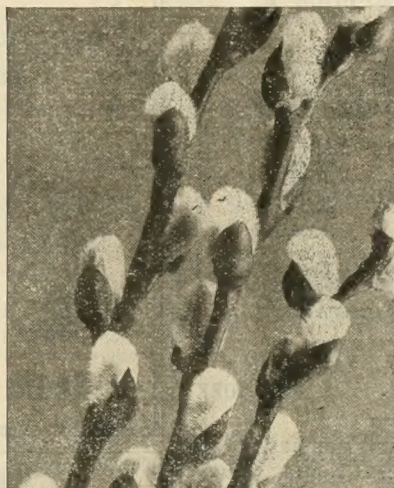
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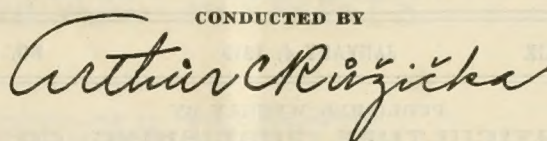
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ROSE GROWING UNDER GLASS

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Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

The Propagator

Now with the Christmas rush all over, the place will settle down to regular work again, and this will, like all former years, be in the propagating house. If this house is not running as yet, it is high time that it was started. It may turn out to be a mild winter with a very early spring, so it will pay to take advantage of this cold, clear weather while it is with us. It will be hard to control the benches as soon as the days get a little warmer, more so if we get a good deal of foggy weather towards spring. Get the house all cleaned up and the sand into it ready for the cuttings.

Selection of Tea Wood

It will pay to be very careful in cutting the wood for propagating tea roses. Take no wood from poor, sickly plants, likewise no wood from plants not true to type, unless, of course, they are an improvement on the old. Also do not take too much wood from one plant, aiming to distribute cutting about evenly among all the plants, thus making it very easy for them all. Take as many short branches with the heel as it is possible to get, making sure that they are not too hard to root well. If the wood has nice, live thorns on it and is not too soft it will be just right. Use a very sharp knife so as not to damage the bark on the wood and be sure to see that all the wood is cut so that the heel will be intact as far as possible to form one end of the cutting. Then two good eyes for the top, and that will make a cutting which when rooted will be ready at once for a two and a quarter inch pot, and it will not take long before it will stand a shift, making a good plant in no time at all. As fast as an armful of wood is cut shove it into water for a while, after which it can be removed from the water, and cut up into cuttings. These should not be put into water unless it is necessary, as the less water they soak up the better they will root. Do not keep the wood or cuttings lying around any length of time, but hustle them right on through as soon as the wood is cut. Make it right up, and then put the cuttings right into sand. Select all healthy wood, free from spot, spider and mildew, and take no cuttings from plants that have suffered from overwatering, or those growing in dark corners of the houses where there is very little or no sunlight at all. Wood of this kind will not make nice plants, and should these be planted next summer they would be sicker than ever next winter.

Lime

Many benches that were on crop for Christmas will be pretty well cut to pieces now, and will require a little coaxing to bring them back again these short winter days. Allow such benches to dry out just a little bit, then apply a good dose of fresh air slacked lime, rubbing the benches over the least bit after applying to better distribute it. Then follow with the hose, watering well and evenly. If the lime has not been screened and freshly slacked there will be little lumps here and there that will slack after the watering. Have the men go around and scratch these up spreading the lime around while it is dry. It will take only a very little time to do this, and will pay well in the long run. Then the benches may be allowed to become quite dry once more, then well watered, after which they ought to show signs of growing well, and water will have to be applied more and more as the growth develops. Feeding will also be necessary as the plants need it.

Fumigation

The days will now soon be noticeably longer, and first signs of the coming spring will soon be here, although we have not had any winter as yet. With the coming of the longer days Mr. Greenfly will stretch his feet and attack the plants with new vigor, and unless the grower is right there with a dose of nicotine or gas, there will be so many green flies that they will seriously hamper the growth of the rose plants. Fumigate regularly, trying to arrange so that the plants will receive a good syringing the day after, which will take care of all flies that were not killed outright. When using cyanide gas, extreme caution should be taken to lock all doors, and stretch something across each doorway so there will be no danger of anyone walking into the gas and getting killed. It seems foolish, and yet a short time back two men were killed because they drank some nicotine extract by mistake. To one familiar with gas no warning is necessary, for without fail there will be smell enough in the house just before the one that is charged with gas to warn the man who knows. But even then one may forget, as did the man who for forty years drove a horse and wagon to the station several times a day, knew trains like a book, and was on his last trip prior to his retirement, when he drove into a fast express and was killed at once. Gas is cheap and very effective, but it is deadly, as is cyanide itself, and sulphuric acid. All these must be handled by experienced hands only, and very carefully at that.

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CONTENTS

	Page
ROSE GROWING UNDER GLASS—The Propagator— Selection of Tea Wood—Lime—Fumigation— <i>Arthur Ruzicka</i>	5
SOCIETY OF AMERICAN FLORISTS—Officers for 1919, portraits—President Ammann's New Year's Greeting —The Publicity Campaign.....	7-9
POPULAR HOLIDAY PLANTS—Begonia "Glory of Cin- cinnati"—Illustration	10
HARDIHOOD OF CONIFEROUS EVERGREENS— <i>R. E. Horsey</i>	11
OBITUARY—Arnold DeBree—George L. Waterbury— Mrs. Augusta C. Mather—George J. Allen—Andrew Masson—Mrs. Adam Schillo.....	14
LOCAL AND GENERAL NEWS:	
Chicago—Boston	14
New York—Rochester.....	22
CLUBS AND SOCIETIES:	
Florists' Club of Philadelphia.....	15
OF INTEREST TO RETAIL FLORISTS:	
Flowers by Telegraph.....	16
New Flower Stores.....	17
FLOWER MARKET REPORTS:	
Boston, Chicago, Cleveland, Cincinnati, New York....	19
Rochester, St. Louis.....	21
MISCELLANEOUS:	
Christmas in Chicago.....	21
Greenhouses Building or Contemplated.....	15
News Notes.....	10
Patents Granted.....	15

not be difficult therefor for growers to secure the additional help required for the coming spring at wages considerably lower than those now prevailing.

Word from Belgium

A correspondent writes us from Ghent, under date of December 4th, 1918, as follows: "Our post connections are re-established now with the whole world, and I am glad to report that we are enjoying good health in spite of all the troubles we had to bear during four long years. Our German oppressors tried to ruin the florist trade as they did all other kinds of Belgian business. If our greenhouses have been saved from destruction we have now nearly no plants to fill them. Azaleas will be very expensive for some years. It is impossible to make any quotations now."

Lower Prices on Coal

The mild weather which has prevailed until now, has greatly reduced the consumption of fuel. Reduced consumption in general is even now tending to produce surpluses of soft coal, and HORTICULTURE hears from a reliable source that in the near future a substantial reduction in price may be expected. Flowers have never brought better prices than during the present season and such prices can hardly suffer much reduction until after Easter. For Easter the supply in sight is much below normal and it now looks as if another rich harvest were in sight at that season for the florist who has material to offer. With the coal situation easier, the grower faces an unusual opportunity.

Commissions to landscape architects

Many landscape architects endeavor to obtain commissions on orders of seeds and nursery stock which they place, which commissions if allowed are usually passed back to their clients. These clients are given to understand that by placing their orders through the landscape architects they get the advantage of what they designate as professional discount and which they hold up to their clients as a substantial offset to the fees which they charge. It is clearly unwise for any nurseryman or seedsman to encourage these interlopers, and several firms are giving public notice that they do not give commissions to landscape architects, nor can they obtain any better terms than are given to their customers who buy directly. This course is the only ethical one, any other is most reprehensible. We see little difference between the landscape architect who seeks to extort a commission and any employee who demands or accepts commissions on purchases made by him for his employer, the only difference as we see it seems to be that to the latter the gain is direct, to the other it is indirect. Both are guilty of exaction. The landscape architect is no more entitled to commissions for his clients than is any other architect, and the better class landscape architects do not have to stoop to such insidious means of peddling their services.

The Help Question

Already the help situation is being relieved. Men released from the army and navy are in most cases seeking re-employment in their former places. In the eastern coast cities there are thousands of unemployed now and their number is daily increasing. It should

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

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five years.

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JOHN YOUNG, Secretary.

December 28, 1918.

PRESIDENT AMMANN'S NEW YEAR'S GREETINGS

As president of the Society of American Florists and Ornamental Horticulturists, I extend hearty greetings to all members of our beloved society, and to all members of the craft everywhere.

First, let us give thanks to Almighty God, who has seen fit in His infinite wisdom to end the cruel conflict that has been raging in bleeding Europe for over four years, and for the part our glorious nation has been privileged to have in bringing it to a speedy end.

I am sure that the florists all over the world can point with pride to the part we, as a profession, have had in helping to win the war. Our money has been cheerfully lent to the government, and given to other war activities, while our gallant young men have marched out at the country's call, cheerfully sacrificing their all for the great cause of humanity and world democracy. Fellow members, our work is not finished. We must now prepare ourselves for the great reconstruction period. We have come out of the struggle far better equipped for this great coming period, than many of us expected, so it behooves us now to concentrate our forces, and just how can we best do this?

First of all I want to address myself to the young men of our society. Be sure and co-operate. Strive to continue the wise policies so well established by the old leaders. Increase the standard of culture and quality. And let us add to that the commercial progress in keeping with the present day and age.

Just now publicity is the watchword. The corner stone for this wonderful addition was laid just 16 short months ago in the city of New York. Soon after our great nation entered

into the war, but in spite of the trying commercial situation over all our land, the success was most marvelous. Too much credit cannot be given to the men who launched this great movement, and to the committees who so nobly carried on the work. Everybody should get behind this great work and assist the leaders now more than ever.

Our business must be adjusted to meet the demands which will be made upon us. Millions of dollars will now be diverted from other channels. It behooves us to prepare ourselves to get a large part of this business. Our product is bound to be in greater demand than ever before. We must strive to furnish better quality and more efficient service. This can best be accomplished by more thoroughly organizing our forces.

To the officers and members of the affiliating organizations, I extend the most cordial invitation for a hearty co-operation the coming year. Several have already acquired representatives on the parent society's board of directors, which is very cheering. Let us hope that many more will soon increase their membership so they, too, may avail themselves of the opportunity of having their president a member of our board.

The old S. A. F. and O. H. is truly proud of all its offspring and we bid you speed on in your special lines. It not only means progress for you but it also helps the parent society and every good parent is anxious to see its children succeed.

To the members of state associations and local florist clubs, I also extend an invitation for hearty co-operation. Every state in the Union should have either a state association or a local club in one of its principal cities. The members of such organization should strive to secure enough members so they may be represented on the national board of directors. This can be done, and we can not be too thoroughly organized. Let us make this a part of our 1919 platform. Ever remembering that we need you and you need us.

The three representative branches of our trade, namely, the grower, wholesaler and retailer, I want to invite to council with us for promoting the interests of the trade at large.

Mr. Grower, it is up to you to get better organized. Growers should have branch organizations, to confer often in reference to combating insects and diseases; the use of fertilizers, etc. Also the kind of stock to grow. In fact, we need more strictly growers' associations.

The wholesaler, too, needs to be more thoroughly organized locally to carry on their own interests successfully, and to get into conference with the growers as to the varieties of stock to be grown. In a few cities co-operation of the wholesalers has shown excellent results already.

The retailer is no doubt the best organized of the three branches since the splendid work of the Florists' Telegraph Delivery Association has so nobly helped to bind the retailers together for our common good. May they continue to prosper, and the retailers locally take more advantage still by becoming even more strongly organized.

The S. A. F. and O. H. stands ready to help any branch of the trade to become more efficient. We have the means and the ability to assist

understand that all members of our society are invited to join them in a victory love-feast. So as many as possibly can should plan to be present. These get-together meetings mean so much for our future progress.

To the dear ladies of our sister society we, too, extend hearty greetings. May they continue in the good work of making our annual meetings more sociable, pleasant and inspiring by their presence. May God bless the ladies for their service in the great struggle for humanity through their noble work in the Red Cross and other humanitarian activities.

J. FRED AMMANN, President,
S. A. F. and O. H.

NATIONAL PUBLICITY CAMPAIGN

The second year of our National Publicity Campaign has commenced under favorable conditions. The great war is ended, and with it the necessity, which people have believed to exist, for economies, which included the use of flowers in the home. Industrial conditions in 1919 are expected to be such as to insure prosperity, and everything augurs well for the florist trade.

It was demonstrated through our work in the year just closed that the public is influenced by publicity of the kind which is suggestive, therefore, our committees believe that it is advisable to confine their efforts along the lines already exploited. As already announced, contracts have been placed for a series of advertisements to appear repeatedly during January and February in 28 National Magazines. Electrotypes of these advertisements for the use of florists in their local newspapers are now ready, and the set of six will be mailed promptly on the receipt of the price, \$3.00 per set. All the magazines circulate in the neighborhood of every florist in the country, so a liberal use of these advertisements during the two months is strongly recommended to those who want to draw individual benefit from the magazine publicity.

Our committees are earnestly hoping that all florists who have not already notified the Secretary of their willingness to make an annual subscription to the fund for the remaining three years of the campaign will do so at once. The results from the first year's publicity are too good to be permitted to stale in the least, but we can only retain and increase them through renewed effort. The Secretary will be pleased to mail a special subscription form to anyone making request, and also a copy of the new cir-



W. F. GUDE
Washington Representative

you. Let us help solve your problems, and put floriculture on the high plane it belongs.

We are now entering an era of brotherly love as never before shown in the history of the world. Never did men's hearts go out to one another as much as now. The spirit of America for humanity and world democracy prevails everywhere, and as men's hearts grow larger the world seems smaller. The light held aloft by the Statue of Liberty shines the world over. Let us have for our reconstruction program the slogan, "Competitive Co-operation for the Best Interests of All."

The annual meeting of the American Carnation Society takes place in Cleveland on Jan. 29-30, 1919. This is one of the live-wire affiliated organizations of the S. A. F. and O. H. I

POPULAR HOLIDAY PLANTS



BEGONIA "GLORY OF CINCINNATI"

cular describing our direct service aids up-to-date.

In a letter just received from William L. Rock, of the William L. Rock Flower Co., Kansas City, Mo., that gentleman says: "We shall be only too glad to subscribe \$200.00 per annum for the next four years. We feel that the campaign, so far as it has gone, has done a great deal toward building up the florists' business. Of course, we have no way of checking or telling the amount of business derived from this source. It seems very clear to us, however, that if double the

amount were spent next year, it would be money well spent, and believe that the smaller florists throughout the country will soon recognize its value and possibly will subscribe a larger amount than they have in the past."

If every florist would view our project in the same way, the support would be such as to make the complete attainment of our object an easy matter, and business for all would be increased to a remarkable extent. Begin the New Year well—send in a subscription, and use our direct service aids.

JOHN YOUNG, Secy.

NEWS NOTES

Springfield, Mass.—Corporal Patrick McCarthy, formerly employed by Mark Aitken, has been released from a German prison camp and is now with the American troops again.

Manchester, N. H.—The 24th annual meeting of the New Hampshire Horticultural Society was held on Dec. 20th. Prof. W. H. Wolff of the New Hampshire State College made the opening address. Several other addresses were also made and an exhibition of canned fruits and vegetables was also shown.

HARDIHOOD OF CONFEROUS EVERGREENS

As Shown by the Severe Cold Winter of 1917-18.

Notes in March and July by R. E. Horsey, Highland Park, Rochester, N. Y., 1918.

Abies amabilis, Forbes. (White Fir) sheltered. In March, not injured, in July growing in first class shape.

Abies balsamea, (Douglas' new form of Balsam Fir). In March, not injured although quite exposed. In July, growing well.

Abies cephalonica, Loud. In March, ruined. Was exposed to sun and somewhat sheltered from wind. In July, was cut out in spring as it has burned more or less in winter for years past.

Abies cephalonica Apollinis, Boiss. (A. Reginae Amaliae) very badly burned, March note. Exposed to sun with a little shelter from wind. In July, old leaves dead, new leaves starting fairly well.

Abies cilicica, Carr. partially exposed. In March, ruined. In July, two trees starting very poorly, while one is growing fairly well, in all lower branches are dying.

Abies concolor, (White Fir) Lindl. In March, trees fully exposed are not injured while others are quite badly browned. In July, all are starting well, and growing fine.

Abies Fraseri, Poir. (She Balsam) Growing well, apparently not injured, July note.

Abies grandis, Lindl. (Yellow Fir) partly sheltered. In March, ruined. In July very bad shape, a few new leaves starting on side of branches. Another small tree is starting well.

Abies homolepis umbellata, Hort. small trees sheltered somewhat from wind but in full sun. In March, not injured. In July, growing fine.

Abies nobilis, Lindl. (Red Fir) in sun half of day, but out of wind. In March, badly burned. In July, old leaves in bad shape, new leaves starting fairly well.

Abies nobilis glauca, Hort. partly sheltered. In March, not injured. In July, growing fine.

Abies Nordmanniana, Spach. (Nordmann's Fir) partly sheltered or fully exposed. In March, all are badly burned. In July, old leaves brown or fallen, new leaves starting good on some, fairly well on others.

Abies Numidica, Carr. fully exposed. In March, very badly injured. In July, starting poorly.

Abies pectinata, D. C.—A. *Picea*,

Lindl. (European Silver Fir) exposed to sun somewhat sheltered from wind. In March, ruined. In July, old leaves about all fallen, new leaves starting fairly well.

Abies Pinsapo, Boiss. (Spanish Fir) partly sheltered. In March, badly burned. In July, starting very little, almost dead.

Abies sachalinensis, Mast. is not growing well. In March, is somewhat burned. In July, starting fairly well.

Abies sibirica, Ledeb. (Siberian Fir) exposed. In July, growing fine, not injured.

Abies Veitchii, Lindl. (Veitch's Fir) fully exposed not injured. March note. In July, growing fine, the hardiest of the Firs.

Cedrus atlantica, Manetti. small tree 4 ft. tall. In July, dead, except a couple of lower branches, exposed.

Cedrus Libani, Loud. (Cedar of Lebanon) small trees fully exposed to sun with some shelter from wind. In March, badly burned. In July, starting good.

Cephalotaxus drupaceae, S. & Z. sheltered. In March, very badly burned. In July, new buds starting slowly, but thickly along branches.

Chamaecyparis Lawsoniana, Parlatores. (Lawson's Cypress) partly sheltered. In March, badly burned, old tree apparently not as bad as young ones. In July, young trees starting well, old tree starting poorly.

Chamaecyparis nootkatensis, Sudw. (Yellow Cedar) somewhat burned, nothing serious. March note, partly sheltered but in sun three fourths of the day. In July, growing fine, no sign of injury.

Chamaecyparis pisifera, S. & Z. (Sawara Cypress) partly sheltered. In March, not injured. In July, growing fine.

Chamaecyparis pisifera, filifera, Beissn. partly sheltered. In March, not injured. In July, growing fine.

Chamaecyparis pisifera, plumosa, Beissn. partly sheltered. In March, not injured. In July, growing fine.

Chamaecyparis pisifera, squarrosa, Beissn. & Hochst. partly sheltered. In March, considerably burned. In July, growing fine.

Chamaecyparis thyoides, Brit. (White Cedar) In July, growing well, apparently not injured.

Cryptomeria japonica Lobbi, Carr. well sheltered. In March, shows no injury. In July, one-half to two-thirds of branches dead, live branches starting well.

Juniperus chinensis, Linn. (Chinese Juniper) and varieties, somewhat sheltered not injured, March note. In July, growing well.

Juniperus Sabina, Linn. (Savin Juniper) and varieties. In March, not injured. In July, all growing well except *J. Sabina tamariscifolia* (Tamarix-leaved Juniper) old plant about one half of branches dead, while young plants are all right, or an occasional dead branch. Some doubt if this injury was caused by cold weather.

Juniperus communis depressa, Pursh. In July, growing well, except for an occasional dead branch.

Juniperus communis suecica, Loud. (Swedish Juniper) partly sheltered. In March, burned where hit by sun, otherwise in fine shape. In July, growing fine.

Juniperus communis hibernica, Gord. (Irish Juniper) sheltered. In July, growing fine, not injured.

Juniperus virginiana, Linn. (Red Cedar) fully exposed. In March, not injured. In July, all right.

Libocedrus decurrens, Torr. (Incense Cedar) well sheltered. In March very badly burned. In July, half dead, but starting out.

Picea bicolor, Mayr. (Japanese Spruce) somewhat sheltered. In March, not injured. In July, growing good.

Picea canadensis, BSP. (White Spruce) in March, not injured. In July, growing fine.

Picea Engelmannii, Engelm. (Engelmann's Spruce) partly sheltered. In March, not injured. In July, growing fine.

Picea excelsa, Link. (Norway Spruce) in March, not injured. In July, growing good.

Picea Glehnii, Mast. partly sheltered. growing well, apparently not injured in July.

Picea jezoensis, Maxim. The young growth is starting fine, apparently not injured by cold. July note. However, the trees do not look healthy.

Picea Omorika, Bolle, exposed to sun, somewhat sheltered from wind.

The Boys are Coming Home Now

There will be great rejoicing and if the S. A. F. Publicity Bureau, Horticulture, and other active agencies make the impression they should, the home-welcome will be the greatest this country has ever seen, florally and otherwise.

GET READY

for the stirring events ahead and hasten this great trade revival with confidence and courage.

Advertise! Advertise!! Advertise!!!

Tell the trade readers of Horticulture what you have to sell to them. Let them know you are ready to meet them on the common ground of

BETTER BUSINESS FOR ALL

Every issue of Horticulture all through this historic season will be at your service to co-operate in every possible way. We await your copy and instructions. Forms open until Thursday morning each week.

Horticulture Publishing Co.

147 Summer Street, BOSTON, MASS.

In March, quite badly burned. Growing strong, in July.

Picea orientalis, (Oriental Spruce) In March, badly injured, fully exposed or partly sheltered. In July, most of the trees growing well and recovering.

Picea polita, Carr. (Tiger's Tail Spruce) growing fine, apparently not injured. July note.

Picea pungens, Engelm. (Blue Spruce) and varieties. Fully exposed. In March, not injured. In July, growing fine.

Picea stichensis, Carr. (Sitka Spruce) partly sheltered. In July, badly burned, one-half of leaves fallen, but starting fairly well, will recover.

Pinus aristata, (Foxtail Pine) growing fine, not injured, July note.

Pinus Armandii, Franch. fully exposed. March note, very badly injured, the worst hit of the pines. In July, starting well and will recover.

Pinus attenuata, Lenn. (Knot-cone Pine) partly sheltered. In March, is badly burned. In July, is starting slowly.

Pinus Ayacuhuite, Ehrh. Somewhat burned, but is starting well, in July.

Pinus Bungeana, Zucc. protected from wind, but in sun. (Lace-bark Pine) In March not injured. Growing fine in July.

Pinus Cembra, Linn. Swiss Stone Pine) exposed to sun somewhat sheltered from wind, new leaves slightly injured. March note: another tree sheltered from sun but exposed to wind, not injured. In July all are growing fine.

Pinus contorta latifolia, Engelm. (*P. contorta Murrayana*, Engelm.) (Lodge Pole Pine). In March, not injured. In July growing fine.

Pinus densiflora, S. & Z. (Japanese Red Pine.) Well sheltered or exposed in March very badly burned. In July starting fairly well.

Pinus densiflora nana, Hort., exposed, badly burned, March note. In July starting well.

Pinus excelsa, Wall. (Himalayan White Pine) Exposed to sun, more or less sheltered from wind, several trees, all are injured somewhat, some more than others. March note. In July, they are growing fine, except one which is badly hurt.

Pinus edulis, Engelm. (Nut Pine) sheltered. In March, healthy tree not injured, sickly tree badly burned. In July starting well.

Pinus flexilis, James. (Limber Pine) In sun out of wind, not injured in March. Growing fine in July.

Pinus Jeffreyi, Balfour. Black Pine) quite exposed. In March, somewhat burned but not seriously. In July, starting well.

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Be independent, grow your own ROSE STOCKS for budding or grafting. Those using ROSA MULTIFLORA JAPONICA STOCK prefer it to Manetti. We offer for immediate delivery New Crop unshelled Seed at \$4.50 per lb.

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New York, N. Y.

Pinus Koriensis, S. & Z. Korean White Pine) partly sheltered, in March, not injured. Growing fine in July.

Pinus nigra austriaca, Schneid. (Austrian Pine) In March, not injured even where fully exposed, in July growing fine.

Pinus nigra, Elwe's seedling. March note, exposed, not injured. In July growing well.

Pinus nigra Pallasiana, Schneid. (Crimean Pine) one year leaves more or less injured, old leaves not injured. one tree much worse than the other, they are exposed to the sun, but protected from the wind, March note. Starting well in July.

Pinus nigra Poirietiana, Arnold. (*P. Laricio*) (Corsican Pine), partly sheltered. In March one year leaves badly burned, older leaves not injured. Starting well in July.

Pinus monophylla, Torr. (One-leaved Pine) Exposed to sun half of day sheltered from wind. In March, burned in sun, shaded side of plant out of sun not injured. In July growing fine.

Pinus montana Mughus, Willk. (Mugho Pine) Fully exposed to sun. in March of good color and not injured. In July growing good.

Pinus monticola, Don. (Mountain White Pine) somewhat burned, nothing serious, March note. Is in full sun, out of wind. In July growing fine.

Pinus parviflora, S. & Z. (Japanese White Pine) fully exposed. In March, somewhat burned. Starting well in July.

Pinus Peuce, Griesb. Well sheltered from wind, in March, not injured. In July growing well.

Pinus ponderosa, Douglas. (Bull Pine) fully exposed, in March not injured, starting fine in July.

Pinus pungens, Lamb. (Table Mountain Pine) In March, healthy trees, partly sheltered not injured, a few trees in poor condition and exposed are burned. All are starting and growing well in July.

Pinus resinosa, Ait. (Red Pine), In March, even where fully exposed they are not injured. Growing fine in July.

Pinus Strobus, Linn. (White Pine) In March somewhat browned where exposed to wind and sun, nothing serious. Growing fine in July.

Pinus strobiformis, Sudw. (New

Mexican White Pine) In March, out of wind but with little shelter from sun, is badly burned, another tree well sheltered is somewhat burned but not severely. Starting well in July.

Pinus sylvestris, Linn. (Scotch Pine) fully exposed, in March not injured. Growing fine in July.

Pinus Thunbergi, Parl. (Japanese Black Pine) badly burned, except north tree which is slightly hurt, although apparently the most exposed, March note. In July the north tree is starting well.

Pinus virginiana, Mill. (Jersey Pine) exposed to sun, somewhat out of wind. In March not injured. Growing fine in July.

Pseudotsuga taxifolia, Brit. (Douglas Spruce) In March not injured, even where fully exposed. In July growing fine.

Sciadopitys verticellata, S. & Z. (Umbrella Pine) burned but leaves not killed, note in March. Is exposed to sun but sheltered from wind. Well sheltered tree not injured. In good condition in July.

Sequoia gigantea, D. C. (Big Tree) —In March, badly burned, sheltered from wind, partly so from sun. In July, starting poorly, 2/3 branches dead.

Taxodium distichum, Rich. (Bald Cypress)—Growing fine in July.

Taxus baccata, Linn. (English Yew) and varieties, injured about as much as usual or perhaps less, as they were buried in snow during the severe cold, except a few upright forms which were badly burned, March note. In July they were starting fairly well although old leaves were badly burned.

Taxus canadensis, Marsh. (Canadian Yew), fully exposed, not injured except late growing tips, March note. In July they were growing fine.

Taxus cuspidata, S. & Z. (Japanese Yew) and varieties, partly sheltered, were not injured, March note. Growing fine in July.

Thuja Standishii, Carr. (*T. japonica*, Maxim.) (Japanese Arbor-vitae)—In March, browned a little in sun, other-

E. W. FENGAR CHRYSANTHEMUMS

147-187 Linden Ave.
IRVINGTON, N. J.

wise not injured. In first-class shape in July.

Thuja occidentalis, Linn. (Arborvitae) and varieties, fully exposed; in March not injured; in July, growing fine.

Thuja plicata, Don. (Canoe Cedar), exposed or partly sheltered—In March not injured. Growing fine in July.

Tsuga canadensis, Carr. (Hemlock), badly burned unless sheltered, March note (always burns more or less in open). In July starting fine.

Tsuga carolinensis, Engelm. (Carolina Hemlock) — In March, badly burned in the sun, all right where sheltered; sheltered ones starting well in July.

Tsuga diversifolia, Mast., not injured except one shrub slightly so, although fully exposed, March note. July note, growing well.

Tsuga Sieboldii, Carr., well sheltered not injured, exposed badly burned, March note. Sheltered one starting well in July.

Torreya nucifera, S. & Z., partly sheltered, badly burned, tips that grew last season killed, March note. In bad shape and not starting in July.

Torreya taxifolia, Arn. (Fetid Yew), well sheltered and surrounded by other evergreens, is 10 feet tall and probably 15 years old. In July noted as apparently not injured and growing well.

In December it is to be noted that surprising little injury can be noted, and by the removal of a few trees of Firs (*Abies cephalonica*, *A. cilicica*), of part of the Incense Cedars (*Libocedrus decurrens*) and the Big Tree (*Sequoia gigantea*), with the careful pruning of the dead twigs in the Yews, little trace of the severe cold of last winter can be seen.

While the leaves about all dropped off the European Silver Fir (*Abies pectinata*), the new foliage is in fine condition, and several others have come back in the same way, and if we have a mild winter this year it is to be hoped little permanent injury will be done.

CHICAGO

The extra work at Archie Spencer's is being taken care of by Ed. Hanswirth, whose many years in the retail business in Chicago in the past, won him many friends.

Frank Oechslein is recovering from a severe attack of the influenza, which kept him from the greenhouses during the holiday sales.

Among the soldiers in the trade returning to their homes is Rory F. Wilcox of J. F. Wilcox & Sons, of Council Bluffs, Ia. He was in the avi-

ation corps and has been for some time at Washington where he was commissioned a lieutenant. Blaine Wilcox, a brother has just been honorably discharged from Camp Pike and will resume his work at the greenhouse plant.

Obituary

Arnoldus DeBree,

Arnoldus De Bree, seventy-five, a florist of Scotch Plains, N. J., died Dec. 23 at Muhlenberg Hospital, Plainfield.

George L. Waterbury.

George L. Waterbury, for many years a prominent florist in Stamford, Conn., died on December 16, after a long illness.

Mrs. Augusta C. Mather

Mrs. Augusta C. Mather, florist of Rockland, Me., died at her home Dec. 12th, after a long illness, aged seventy-nine years. Mrs. Mather established the greenhouse range at Pleasant and Purchase streets in 1892, and built up a large business there. The business will be continued by her husband and son.

George J. Allen

George J. Allen, aged 36, son of J. K. Allen, the veteran wholesaler, died suddenly at his residence on Monday, Dec. 30.

He has been in the retail business for the past 10 years, more recently at 168 Street and Broadway. Mr. Allen is survived by a wife and young daughter.

Interment was in Woodlawn Cemetery, Thursday, January 2.

Andrew Masson

Andrew Masson, superintendent of the Mrs. Louis Frothingham estate, North Easton, Mass., passed away on December 17th, a victim of the influenza epidemic. Mr. Masson was born in Scotland, but came to this country at an early age. After working on various estates, he came to North Easton seven years ago, where he laid out the Frothingham estate. His death is a distinct loss to horticulture. Mr. Masson leaves a widow and a daughter, also a brother and a sister. We was a member of the National Association of Gardeners, also the Gardeners' and Florists' Club of Boston. There were many floral tributes.

Mrs. Adam Schillo

Mrs. Adam Schillo passed away Dec. 28th, at her home 1722 Mohawk St., Chicago. She was the widow of the late Adam Schillo, a pioneer lumberman, whose death occurred nineteen years ago, and whose name is still borne by the Adam Schillo Lumber Co. Greenhouse material is one of the important parts of the business and through it the father and sons have been closely connected with the growers of flowers, plants and vegetables in and about Chicago. Mrs. Schillo has been a resident of this city for sixty years and was eighty-one years old at the time of her death.

She leaves four children, eleven grandchildren and eight great grandchildren. The funeral was Tuesday, Dec. 31, from the home and interment was at St. Barnabas.

Wilbur A. Fisk

Wilbur A. Fisk, president of the seed firm of W. E. Barrett & Co., seedsmen, Providence, R. I., died in that city Dec. 16th, at the age of seventy-six. Mr. Barrett suffered a stroke of paralysis eight years ago, and had been an invalid for the last four years. Mr. Barrett was born in Bethel, Vt., and entered the employ of W. E. Barrett in 1876. In 1878, he was admitted to the firm, and when the business was incorporated in 1898, he was made president. He was a man of genial, whole-souled disposition, who took a personal interest in everything pertaining to agriculture, and the growth and prosperity of his firm was largely due to his management. He was a member of the Rhode Island Horticultural Society, also the Gardeners' and Florists' Club of Rhode Island. He is survived by his wife and one daughter.

BOSTON.

Wm. J. Stewart, editor of HORTICULTURE has been quite ill with a severe carbuncle on his head and is now in a private hospital at 845 Beacon street, Boston.

Acting secretary, F. A. Wilson announces that at the meeting of the Horticultural Club of Boston on Wednesday, January 8, Prof. Liberty H. Bailey of Cornell University and Prof. John G. Jack of Arnold Arboretum will be guests of the Club.

The annual winter meeting of the Boston Market Gardeners' Association was held in Arlington, Saturday, Dec. 28. About 100 market gardeners attended, and part of the time was spent in visiting the farms in that town. In Associates Hall a dinner was served, and following it there was a discussion, with "Will I Raise My Boy to Be a Market Gardener?" as the topic.

THE FLORISTS' CLUB OF PHILADELPHIA

Publicity Meeting

The January meeting of the Florists' Club of Philadelphia, to be held on Tuesday, January 7th, at 8.00 p. m., in the Hotel Adelphia, 13th and Chestnut streets, is to be made a special occasion.

The feature of the evening will be the opening gun of the S. A. F. Publicity Campaign for 1919. What has been accomplished and their plans for the coming year.

The meeting will be addressed by ex-President Chas. H. Totty, Secretary John Young, Major P. F. O'Keefe, Wallace R. Pierson and W. F. Gude.

An exhibition of commercial cut flowers new and standard varieties will be an attractive feature.

It is desired and an invitation is hereby extended to all the trade who can make it convenient, particularly those who have Philadelphia for their market, to attend this important meeting. Retail store men will be particularly interested in the address of Major P. F. O'Keefe whose slogan, "Say it with Flowers," has done so much to benefit the trade. Wallace R. Pierson is one of the brightest and most practical men in the craft. A line from him is worth more than a page of theory. President Totty and Secretary Young who have given so much of their time and best effort to this movement will tell of its success, while W. F. Gude who so ably guards the interests of the craft in Washington, and as President of the F. T. D. keeps the members keyed up to the greatest efficiency, will have an interesting story. Let every member of the trade in this section make a special effort to be present and receive the inspiration that is bound to come from meeting with these leaders of the profession.

E. A. HARVEY, Pres.

ROBERT KIFT, Sec.

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Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn the Florist, 124 Tremont St.
Brooklyn, N. Y.—Wilson, 3-5 Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main
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Buffalo, N. Y.—Palmer's, 304 Main St.
Cambridge, Mass.—John McKenzie, 1927
Mass. Ave.

Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Cleveland, O.—Adam Graham & Sons,
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Cleveland, O.—Knoble Bros., 1836 W. 25th
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Cleveland, O.—The Smith & Feters Co.,
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Denver, Col.—Park Floral Co., 1643
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East Orange, N. J.—Smith, The Florist.

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Fishkill, N. Y.—Wood Bros.

Kansas City, Mo.—Samuel Murray, 1017
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New Haven, Conn.—J. N. Champion &
Co., 1026 Chapel St.

New York—David Clarke's Sons, 2139-
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New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—A. T. Bunyard, 413 Madison
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New York—Dards, N. E. corner 44th St.
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New York—G. E. M. Stumpp, 761 Fifth
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New York—Kottmiller, 426 Madison Ave.
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The GREAT WORLD WAR WON but we
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THE GOVERNMENT
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Largest Retailer of Cut Flowers and
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Orders from the Trade for Deliveries
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Member Florists' Telegraph Delivery
NO ORDERS ACCEPTED FOR LESS
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CHICAGO Send Your Orders to WILLIAM J. SMYTH

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Prompt Auto Delivery
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Deliveries to Steamers and all Eastern Ports

Orders Filled Day or Night for
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Complete Stock. Regular discount to Trade.
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735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

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A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
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Retail Deliveries
to central Hudson River points, on
Telegraphic Order.
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S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
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HIGH GRADE PLANTS
For Retail Stores a Specialty
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HARRY I. RANDALL, Proprietor.
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Philadelphia—Chas. H. Grakelow, Broad
St. at Cumberland.
Providence, R. I.—Johnston Bros., 38
Dorrance St.
Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave. N.
St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.
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Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.
Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.
Washington, D. C.—Gude Bros., 1214 F
St.
Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.
Worcester, Mass.—Randall's Flower Shop,
22 Pearl St.
New York—Thos. F. Galvin, Fifth Ave.,
at 46th St.

Visitors' Register

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Toronto, Ont. J. Schlichter & Son.
Hamilton, Ont. M. Brown, Arbor
Florist.
Rochester, N. Y. E. C. Colgrove, 356
Lyell Ave.
Green Bay, Wis. American Flower
Shop, 213 N. Washington St.
San Francisco, Cal. Shellgrain &
Ritter, 148 Kearney St. C. C. Navlet
& Co., Market, off First St.
Manchester, N. H.—Harry R. Chase
of Wilton was elected president of the
New Hampshire Horticultural Society
at its 24th annual meeting, and John
T. Harvey of Pittsfield was re-elected
vice-president and Wesley Adams of
Derry succeeds Stanley K. Lovell of
Goffstown as secretary-treasurer.

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FALL RIVER, MASS.
Deliveries of Flowers and Plants
in FALL RIVER and contiguous
territory.

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Deliveries to all points in New England.
125,000 Square Feet of Glass.
Member Florists' Telegraph Delivery
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SMITH, The Florist

We deliver by automobile in East, West
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clair, Bloomfield, Newark and New York.

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Delivered on mail or telegraph order for
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The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
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ST. PAUL, MINN.

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ORCHIDS

in quantity is the outlook for January. Large flowers and good varieties. Prices will be more reasonable.

Let us Supply you

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CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

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*Wholesale Cut Flowers
Plants, Greens, etc.*

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They'll Reciprocate**

**IF You Want Anything from Boston Get It
From Henry M. Robinson & Co.**

For Safety Place Your Orders With Us

HENRY M. ROBINSON & CO.

2 Winthrop Square and 32 Otis Street, BOSTON, MASS.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Jan. 2		ST. LOUIS Dec. 16		PHILA. Dec. 26	
Roses						
Am Beauty, Special	100.00	to 150.00	65.00	to 85.00	85.00	to 100.00
" " Fancy and Extra	50.00	to 75.00	30.00	to 50.00	50.00	to 75.00
" " No. 1 and culls	15.00	to 35.00	12.00	to 20.00	35.00	to 50.00
Russell	25.00	to 50.00	20.00	to 50.00	30.00	to 60.00
Hadley	25.00	to 50.00	5.00	to 25.00	15.00	to 50.00
Mock, Key	20.00	to 50.00	5.00	to 25.00	.....	to
Arenberg, Hoosier Beauty	20.00	to 40.00	5.00	to 10.00	15.00	to 40.00
Ward, Hillingdon	25.00	to 40.00	6.00	to 10.00	.....	to
Killarney, Key, Taft	20.00	to 50.00	6.00	to 15.00	15.00	to 25.00
Ophelia, Sunburst	20.00	to 40.00	12.00	to 25.00	15.00	to 30.00
Carnations	15.00	to 25.00	12.00	to 17.50	10.00	to 15.00
Cattleyas	75.00	to 150.00	100.00	to 150.00	75.00	to 100.00
Lilies, Longiflorum	25.00	to 35.00	.....	to 25.00	25.25	to 35.00
Lilies, Speciosum	8.00	to 20.00	.....	to .....	.....	to
Lily of the Valley	4.00	to 8.00	.....	to 8.00	.....	to
Snappedragon	.....	to	4.00	to 8.00	8.00	to 10.00
Violets	1.00	to 2.00	1.00	to 2.00	1.00	to 3.00
Stevia	2.00	to 3.00	.....	to .....	.....	to
Calendula	2.00	to 4.00	2.00	to 5.00	6.00	to 8.00
Sweet Peas	4.00	to 6.00	.....	to .....	.....	to
Gardenias	.....	to 130.00	.....	to .....	.....	to
Adiantum	1.00	to 1.50	.....	to 1.50	1.50	to 2.00
Smilax	.....	to 25.00	20.00	to 25.00	25.00	to 30.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	35.00	to 50.00	50.00	to 150.00	50.00	to 60.00

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

Wholesale Growers of Cut Flowers

ROSES, CARNATIONS

AND ALL OTHER SEASONABLE STOCK

Shipping orders have most careful attention always

WILLIAM F. KASTING CO.

Wholesale Florists

568-570 WASHINGTON STREET - BUFFALO, N. Y.

Flower Market Reports

The market has held up **BOSTON** well owing to the prevailing conditions, due not alone to the holiday season, but also owing to a renewal of the influenza epidemic. With heavy demands being made upon a short supply, prices held all along the line. Roses were of excellent quality, even the shorts showing up well. Carnations held their own and were in better demand than before Christmas. Lilies moved readily, but violets owing to weather conditions were slow. Sweet peas are scarce and what few come into the market find ready purchasers.

The reaction after the **CHICAGO** unusual condition of the greater Christmas the Chicago market has known has come and there is plenty of stock now at normal prices. The abnormally high prices of carnations have resulted in a feeling of distrust and resentment which does not make for good after holiday trade, and it is doubtful if the growers of that flower will receive as large a sum total for the two months, December and January as they would have, had prices been more nearly normal. The after effects of holiday carnations at 15 and 20 dollars per hundred wholesale is discouraging to both retailer and purchaser. The soft worthless stock which was thrown upon the market at the last moment met the fate it deserved, and carnations which should have sold for 12 cents brought nothing or very little to the grower. Roses were of good quality and while prices were high the stock was worth it and the supply was not in excess of demand.

The week end trade was fair. The first freesias arrived last week and sold quickly. There are many cattleyas now coming and so far they have all brought good prices. American Beauties from the East arrived in good condition and helped out in supplying the demand for that flower.

Holly started out at prices that could not be maintained and the market broke, then became steady at a reasonable price. There was fine mistletoe which sold readily. Christmas trees were another item which showed the tendency to push prices to the breaking point. Trees were priced at from one dollar for the little table tree to ten dollars for the large ones and many would-be buyers went away without them.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI		CHICAGO		BUFFALO		PITTSBURG	
	Dec. 16		Dec. 16		Dec. 23		Dec. 30	
Roses								
Am. Beauty, Special.....	10	75.00	75.00	100.00	75.00	100.00	50.00	60.00
" " Fancy and Extra.....	50.00	75.00	50.00	75.00	40.00	50.00	30.00	40.00
" " No. 1 and culls.....	10.00	35.00	20.00	35.00	6.00	15.00	10.00	25.00
Russell.....	15.00	35.00	20.00	75.00	8.00	20.00	10.00	30.00
Hadley.....	15.00	35.00	15.00	25.00	8.00	15.00	.....	.....
Euler, Mock.....	15.00	35.00	15.00	25.00	8.00	15.00	10.00	20.00
Arenberg, Hoosier Beauty.....	12.00	30.00	15.00	30.00	8.00	15.00	.....	.....
Ward, Hillingdon.....	12.00	30.00	12.00	25.00	6.00	10.00	8.00	15.00
Killamey, Key, Taft.....	10.00	20.00	10.00	25.00	6.00	12.00	8.00	15.00
Ophelia, Sunburst.....	12.00	35.00	12.00	35.00	6.00	15.00	8.00	20.00
Carnations	.....	10.00	10.00	10.00	4.00	8.00	6.00	8.00
Cattleyas.....	76.00	100.00	75.00	150.00	75.00	100.00	50.00	75.00
Lilies, Longiflorum.....	.....	20.00	20.00	15.00	15.00	20.00	15.00	25.00
Lilies, Speciosum.....	.....	.....	.....	.....	8.00	10.00	.....	.....
Lily of the Valley.....	6.00	8.00	.....	8.00	8.00	12.00	.....	.....
Snapdragon.....	15.00	20.00	.....	.....	8.00	12.00	4.00	8.00
Violets.....	.....	1.50	2.50	3.00	1.50	2.00	.75	1.50
Stevia.....	.....	.....	2.00	3.00	.....	.....	.....	.....
Calendula.....	4.00	5.00	6.00	12.00	4.00	6.00	6.00	8.00
Chrysanthemums.....	25.00	50.00	20.00	50.00	15.00	40.00	25.00	50.00
Gardenias.....	.....	.....	25.00	50.00	40.00	50.00	.....	.....
Adiantum.....	.....	1.00	1.00	1.50	.75	1.50	.....	2.00
Smilax.....	.....	20.00	.....	25.00	20.00	25.00	.....	20.00
Asparagus Plu. & Spreng. (100 Bhs.)	25.00	75.00	50.00	150.00	35.00	50.00	30.00	50.00

Contrary to general **CLEVELAND** expectations, a nearly normal supply of stock was available for the Christmas market for which the mild weather a few days previous was partly responsible. Everything sold at better prices than ever before, so all records were substantially surpassed. Fancy grades of cut stock dominated the market. Some excellent buddleia was offered. Christmas greens generally were in rather low supply. A few paper white narcissus and freesias were available. Dullness reigned upon the wholesale market December 26 and 27. Receipts of stock were light but were more than sufficient to meet the feeble demand. December 28 the market resumed its normal tone and demand appeared equal to the supply. An abundance of stock is in sight in the ranges of the growers and will be sufficient to take care of a heavy January and February business. The gradual slowing up of business in the shops has already made many men available for greenhouse work. The real time of trial for the trade is over and better times and conditions are discernible upon the horizon.

Christmas business **CINCINNATI** was excellent. High prices tended to keep the consumers away from cut flowers, but the plant business more than made up for it in volume. Growers practically cleaned up their stock of plants and few retailers had any substantial amount left over after the close of the business. Roses are still scarce and clean up regularly. The carnation market has eased up considerably. Lilies are in fair supply that satisfies present demands. A few poinsettias may be had, but most of these were cut for the Christmas business. Stevia and snapdragon continue to sell well.

Sweet peas are snapped up as fast as they come in. Violets, lily of the valley, and orchids are not selling well. Other offerings are narcissus, forget-me-not and calendula.

Supply and demand **NEW YORK** were about balanced during the interim between Christmas and New Year's—prices showing only a moderate difference. To those who remembered the New Year's demand for many years is small compared with Christmas there were no disappointments, but a disposition by many dealers to put values on their goods not justified by market conditions resulted in carrying over stock which might otherwise have been moved. A fairly large supply of roses arrived Tuesday with a small proportion of shorter grades, which were easily disposed of; the higher grades moving slowly. Business was about as usual Tuesday, after which things slowed down to dullness. Beauties held their brim until Monday, but the supply Tuesday exceeded the demand, although it was not by any means large. Plenty of carnations were to be had and they did not clean up. No one was disposed to cut under the going price to any great extent. Violets did not recover from the blow they got Christmas and sales dragged. Cattleyas were even firmer in price than Christmas owing to a smaller supply and quite a few of these were unsold. Lilies were firmly held and pink lilies sold well. Calendulas, yellow daisies and wall flowers met with moderate demand. Smilax and asparagus were in evidence everywhere—more than enough for ordinary requirements and gardenias of quality were held at a high level. With no unusual demand prices have been well maintained during the holidays.

(Continued on page 21)

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Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK
Telephones: 2200, 2201, Madison Square.

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Wholesale Florist

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Telephone 5335, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

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WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone Farragut 4334

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Telephone—5532-5535 Madison Square

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WHOLESALE FLORIST

109 WEST 28th ST

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609

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Fresh Cut Decorative Evergreens.

Highest Standard of Quality. Largest
Stock in America. Write for Illustrated
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Brooklyn's Foremost and Best

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Willoughby St. Brooklyn, N. Y.

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121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 3870 Farragut.

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A full line of Choice Cut Flower Stock for all purposes.

TELEPHONE { 2281 { FARRAGUT 131 West 28th St., NEW YORK CITY
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Business Here Is Always Good

I NEED MORE FLOWERS. Send your stock here and get
Top Market Prices

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AGENT FOR CARILLO'S CATTLEYAS

HENRY M. ROBINSON CO. OF NEW YORK
WHOLESALE FLORISTS
55-57 West 26th Street

Telephones, 13-4510 Madison Square

Consignments Solicited

MAURICE L. GLASS, Treasurer

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Part of Week ending Dec. 28 1918		First Part of Week beginning Dec. 30 1918	
American Beauty, Special	50.00	to 100.00	60.00	to 125.00
" " Fancy and Extra	35.00	to 30.00	25.00	to 60.00
" " No. 1 and culls	5.00	to 25.00	6.00	to 25.00
Russell	10.00	to 50.00	8.00	to 25.00
Hadley	10.00	to 50.00	8.00	to 40.00
Euler, Mock, Key	8.00	to 40.00	8.00	to 25.00
Arenberg, Hoosier Beauty	8.00	to 30.00	8.00	to 20.00
Ward, Hillingdon	8.00	to 25.00	6.00	to 15.00
Killarney, Taft	8.00	to 25.00	8.00	to 15.00
Ophelia, Sunburst	8.00	to 25.00	10.00	to 20.00
Carnations	0.00	to 12.00	4.00	to 12.00

WE WANT MORE SHIPPERS

We have a numerous clientele of New York City buyers and the demand exceeds our supply. This is especially true of Roses. We have every facility and abundant means and best returns are assured for stock consigned to us.

Address Your Shipments to

UNITED CUT FLOWER CO. Inc.

111 W. 28th St., NEW YORK

D. J. Pappas, Pres.

REED & KELLER

122 West 25th St., New York

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We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

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Headquarters for
CYCAS, BASKETS, WIRE DESIGNS
and WAX FLOWERS

Send for price list if you have not received one.

WILLIAM MACKIE

WHOLESALE FLORIST

105 West 28th Street, NEW YORK

Consignments Solicited

TELEPHONE: FARRAGUT 750

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting
especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED

40 STATE STREET . . BOSTON

Telephone Main 55

When writing Advertisers kindly mention Horticulture

Flower Market Reports

(Continued from page 19)

Christmas trade was **ROCHESTER** very heavy. Roses of good quality were rapidly disposed of. Violets were good. Orchids were seen in limited quantities except the cypripediums, which were plentiful. A small quantity of paper white narcissus and freesias were on the market and sold well. Lilies, likewise. Carnations of pink and white sold readily at the advanced price but very few red carnations were to be had. Cyclamen took the place of the azalea in the plant trade. The stock of begonias was large and although more difficult to handle was a good seller. Normal in quality and quantity, although a few good ones were seen, poinsettias sold on sight. An unusual amount of greens and quantities of artificial baskets were disposed of.

The flower market **ST. LOUIS** broke on carnations, Dec. 24th while roses held firm. In general the supply was scarce but the situation was apparently well taken care of and the wholesaler by judicious distribution helped to solve an unusual situation. There was an excellent demand for bulbous stock as well as the usual Christmas greens.

CHRISTMAS IN CHICAGO.

Another Christmas Day is gone and everyone connected with the trade has had new experiences, and not all pleasant nor profitable by any means. Whoever was responsible for the height to which prices climbed, even before advertised Christmas prices went into effect, all suffered more or less from the effects on Christmas orders, the loss varying according to the class of trade each retailer served. Those whose customers used carnations found themselves quite unable to dispose of stock which cost them from \$10 to \$20 per 100 and prepared to let the wholesalers keep it, to having it left on their hands. Impossible as it may seem, some growers had held back stock which had been selling at the above quotations for ten days only to have it worthless when Christmas arrived. Some roses arrived in the same condition, advancing even further the prices of the higher grades and making it more desirable than ever to use all the plants and prepared materials that the market afforded. To the retailer whose patronage comes from the wealthier class the situation had its

J. J. COAN, INC. *Wholesale Florist*

116 West 28th Street, NEW YORK

Phones: **Farragut 5413 and 5891** **Everything in Cut Flowers**

J. K. ALLEN

"A LEADER IN THE WHOLESALE COMMISSION TRADE FOR OVER THIRTY YEARS"

ROSES! I WANT ROSES!

Have a demand for more than I can supply. Rose Growers Call or Write.

118 West 28th St. NEW YORK **TELEPHONES**
Farragut 167 and 3064

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Part of Week ending Dec. 28 1918		First Part of Week beginning Dec. 30 1918	
Cattleyas.....	25.00	to 60.00	50.00	to 100.00
Lilies, Longiflorum.....	10.00	to 20.00	10.00	to 20.00
Lilies, Speciosum.....	8.00	to 12.00	5.00	to 10.00
Lily of the Valley.....	6.00	to 10.00	4.00	to 8.00
Snapdragon.....	8.00	to 12.00	4.00	to 10.00
Violets.....	.75	to 1.00	2.00	to 3.00
Dahlias.....	.....	.....	.....	.....
Calendula.....	5.00	to 10.00	2.00	to 4.00
Sweet Peas.....	.....	.....	.....	.....
Gardenias.....	25.00	to 50.00	20.00	to 75.00
Adiantum.....	to 1.00	.75	to 1.00
Smilax.....	12.00	to 20.00	12.00	to 16.00
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drawbacks also. Prices on roses were sometimes made which meant loss to the retailer in order to keep a customer, but here, too, the artificial and the prepared stock and the numerous accessories played a big part. Very few windows contained natural flowers, and the thousands of would-be purchasers of fresh flowers, at the normal prices, who turned away from carnations at \$3 per dozen, roses at from \$6 to \$18, and violets from \$3.50 to \$6 per bunch, will not soon come back. News of the drop in prices will not prove the sensation that the high prices have been and retailers will find it difficult to overcome the disappointments of their Christmas customers. The Retailers' Association was powerless to help the situation as the shipping trade could have easily taken care of all the stock then coming in.

At A. Lange's, F. McAllister says he is not a boy in the selling of Christmas flowers, having been in several of the eastern cities before he made this his home, but that he never had tried to sell flowers at such prices since flowers were grown to such an extent. Even in these times people hesitate to pay \$3.50 to \$5.00 for a bunch of violets. Customers preferred to buy plants and baskets of green with ribbon and berries took well.

"It was a high priced Christmas in a high priced year," is the way Geo. Weinhoeber sums it up. It was also a man's Christmas at his store, for the

severe snow storm of Tuesday left the selections almost entirely to the men and the prices of hampers or cut flowers mattered not so long as quality and arrangement were right. In spite of storm deliveries were made of seventeen loads on Christmas morning with but one lot going astray.

A. Cronis says his south side store had the usual good Christmas business but the loop store felt the effect of the extreme prices put on cut flowers during the past two weeks. A large supply of made up baskets and wreaths of prepared materials was disposed of. Little remained when the day was

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A. H. HEWS & CO., INC.
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over, however, the public apparently being quite willing to purchase more lasting materials when cut flowers were so dear.

NEW YORK.

Roman J. Irwin has been ill the past week with influenza but is now on the road to recovery.

Wm. Courtney, the noted actor, has been sued for \$5,488.09 by Fred D. Freund and Sarah Jenkins of the Rye Nurseries.

The proprietors of nearly fifty flower stalls on Mount Olivet and Metropolitan Avenues, near the Lutheran and Fresh Pond Crematories, Queens, were ordered by Magistrate Conway in the Flushing police court to quit their places of business. Some of them had been in business there for forty years, selling cut flowers to visitors to the cemetery, and others had inherited their stalls from their parents.

ROCHESTER, N. Y.

Fruit growers of New York state are expected to merge their organizations in one strong society when they gather in Rochester for their annual convention at Convention Hall, January 15 to 17. The old Western New York Horticultural Society and the New York State Fruit Growers Association will be linked together in one body to be known as the New York Horticultural Society. Features of the convention will be an exhibition of fruits, which promises to be larger than any ever held here. Niagara County has already shipped a carload of apples, aggregating 175 barrels of the best fruit, and the State Agricultural Experiment Station will have its usual display. Every foot of the thousands of feet available for exhibits of spray rigs, tractors, trucks, etc., has already been engaged. There will be several speakers of the highest repute and a symposium on tractors and trucks.

Cincinnati—Chas. Windram, now Lieut. Chas. Windram of the aviation section of the Marine Corps, Ray Eck and George Kessen were home on furloughs for the holidays.

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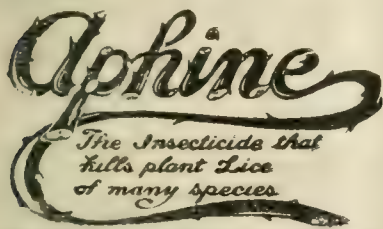
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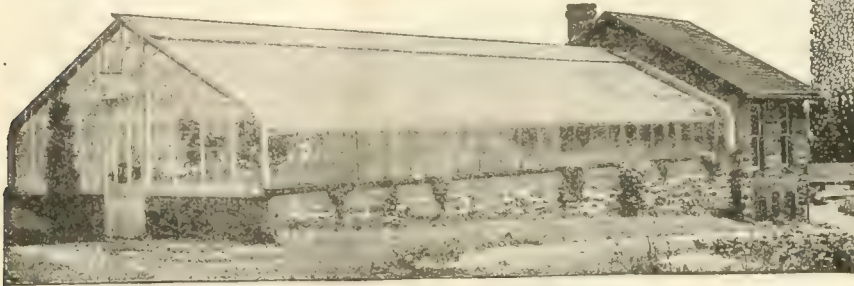
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Vol. XXIX

JANUARY 11, 1919

No. 2

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LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Ackerman, J. P. 26	Childs, John 26	Grakelow, Chas. 41	McHutchison Co. 34-37	Randalls Flower Shop 41	Smyth, Wm. J. 41
Allen, J. K. 45	Lewis 26	H. 41	Marshall, W. E. 26	Reed & Keller 44	Stumpp, G. E. M. 40
American Bulb Co. 26	Clarke, D. Sons. 40	Gude Bros. Co. 40	& Co. 26	Reidel & Meyer 44	Stumpp & Walter 26
Anderson, S. A. 41	Coan, J. J. 45	Hail Asso. 47	McKenzie, John. 41	Reid, Edw. 42	Thorburn, J. M. 26
Aphine Mfg. Co. 47	Cooke, Geo. H. 40	Hart, Geo. B. 42	Meehan, Chas. E. 42	Reuter, L. J. Co. 28	& Co. 26
	Conard & Jones. 28	Hertz & Nash. 45	Metropolitan Material Co. 47	Robinson, Henry M. Co. 44	Totty, Chas. H. 28
	Cowee, W. J. 44	Hess & Swoboda. 41	Michell, H. F. Co. 26	Robinson, H. M. & Co. 42	Tracy, B. Hammond 27
Barrows, H. H. 27	Cottage Gardens Nurseries 28	Hewes & Co. A. H. 46	Michigan Cut Flower Ex. 42	Roehrs, J. Co. 28	Trepel, C. C. 40
Bayersdorfer, H. Co. 45	Craig Co., Robt. 27	Hill Co., E. G. 42	Millang, Chas. 45	Roland, Thomas. 41	United Cut Flower Co. 44
Bay State Nurseries 28		Hill, D. Nursery Co. 28	Muller-Sealey Co. 27	Rosery, The. 40	
Bloomington's 40	Danker 40	Irwin, R. J. 26	Murray, Samuel. 40	Schwake, Chas. Co. 27	Vincent, R., Jr., & Sons Co. 25
Bobbink & Atkins 27	Dards 40			Sekenger, Adam. 40	
Boddington Co., Inc. A. T. 39	Dreer, H. A. 34	Johnston Bros. 40	Nicotine Mfg. Co. 47	Sheridan, W. F. 44	Wants, For Sale, etc. 46
Boligiano & Son. 26	Dysart, R. 44		Niessen, Leo Co. 42	Siebrecht, Geo. C. 44	Warburton 41
Boston Floral Supply Co. 44		Kasting, W. F. Co. 42		Siggers & Siggers 47	Weber, F. C. 41
Breck, J. & Sons. 26	Edwards Folding Box Co. 42	Kelway & Son. 26	Palmer, W. J. & Son 41	Siu, Wm. 26	Weiss, Herman. 44
Breitmeyers, J. Sons 40	Esler, J. G. 47	Kervan Co. 44	Park Floral Co. 41	Skidelsky, S. S. & Co. 26	Wilson 40
Budlong, J. A. 42	Farquhar, R. & J. Co. 39	King Construc- tion Co. 44	Parshelsky Bros. 47	Smith, Elmer D. & Co. 28	Wood Bros. 41
Bunyard, A. T. 40	Fengar, E. W. 28	Knoble Bros. 41	Penn the Florist. 40	Smith, P. J. 44	Woodruff, S. D. & Sons. 26
Burnett Bros. 26	Ford, M. C. 41	Kroeschell Bros. 47	Pennock, S. S. Co. 25	Smith, W. & T. Nursery Co. 28	Young, A. L. 44
Burpee, W. A. & Co. 26 48	Ford, W. P. 44	Kuebler, W. H. 44	Peterson & Sons, J. A. 28	Smith, The Florist 41	Young, John. 44
	Froment, H. E. 44	Kottmiller 40	Pierce Co., F. O. 47	Smith & Fettes Co. 41	Young & Nugent. 44
Carter's Tested Seeds, Inc. 39	Galvin, Thos. F. 41	Lange, H. F. A. 41	Pierson, A. N. 25		
Chase, Homer F. 37	Gasser Co., J. M. 41	Lemon Oil Co. 47	Pierson, F. R. 25		
	Graham & Son. A. 41	Liggit, C. U. 27	Pulverized Manure Co. 46		
					Zech & Mann. 42

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INCREASE YOUR OUTPUT AND YOU WILL MAKE MONEY

Never before, in the history of the florist industry, has there been such a demand for practically every line of stock, and never has there been such a marked shortage of supply.

The war ended (so to speak) almost as suddenly as it began. At the beginning, there were large stocks of everything, but these gradually dwindled, and in many instances, were lost entirely. Upon the signing of the armistice, it was of course impossible for a florist (like a manufacturer), to turn to raw material and either increase or decrease the supply on short notice, so that today, coupled with the many restrictions that hampered the florist business, they find themselves far off from meeting the demands of their trade because there are not enough stocks to work on.

An article was just noticed in one of the trade papers by W. W. Hoopes, of Hoopes Brothers & Thomas, Nurserymen, of West Chester, Pa., in which it is stated that the nursery business does not return the profit it should.

Personally, I feel it is this way to a large extent with the florist business, especially with the grower.

No one can deny that it calls for hard and constant effort with an "Always on the job" idea. There is considerable waste of product, that cannot always be avoided, and for that reason alone, it behooves every florist to educate the flower and plant buying public that they will have to pay a fair price for cut flowers, etc.

An important point for the florist to

keep in mind is that during the period of the war, due to many reasons, not a few florists quit the business. Some few will resume, while others will not. This has created two effects that are now apparent: The first is a shortage of cut flowers, and the second, good prices for what is available.

The war has taught the trade, like many other industries, valuable lessons. It has discouraged waste, it has encouraged a closer application to business, and really, many of us wonder how we went through it and survived.

For 1919, every florist should resolve upon a few important things, remembering that it is our business that really keeps us, and I have always dwelt on the theory that it should command the most, and our best attention.

1. Don't grow surplus for speculation. It has a tendency to lower prices.

2. Get fair prices for your products, especially where fine quality and good trade demand it.

3. Avoid waste in all forms. It surprises one to know how this pulls down the credit side of the ledger.

4. Try and have what your trade demands. Get back gradually into your regular channel of crops, eliminating the things that do not pay, and keeping in vogue the methods that you found made you, during the war, help yourself.

One might go on indefinitely citing suggestions that would prove valuable, and let me conclude in saying, "Keep the florist industry on a high plane." Don't make it a cheap business; make

it a paying proposition. Just think how many of you spent some years of apprenticeship to learn the business, some serving without pay. Are you not entitled to the same return of profit as any other line?

Certainly, yes; and it lies within the province of every florist to make his business profitable. Study market conditions as applied to cut flowers and plants; observe the law of supply and demand, as is done in every industrial business; and then make your price. Because carnations brought a dollar a dozen a year ago, that has no bearing on what you can get today. Grow sufficient stock to meet all normal demands, and which will be taken at a profitable price. Don't grow stock just to fill up benches, unless you are sure you can sell it at a profit. Remember it costs time and money to produce it.

Try to figure a market before you grow it,—and after all, don't have empty greenhouses; nothing deteriorates more rapidly. Make them work for you.

I did not want to use the words spoken today by a prominent grower in Philadelphia, but it might not be amiss, although I never believe in rubbing it in.

He said that many florists were ill; they needed a tonic that would boost them.

Now, it's better to take the medicine yourself than to have it administered, so let's all wake up, if we have been sick, and prepare for a larger spring trade than was ever experienced.

A BOOSTER.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

At the next meeting of the club on January 21 officers will be installed; after necessary business has been transacted there will be an entertainment and collation and dancing. Ladies are cordially invited to this meeting.

The club has unanimously voted to hold a Victory banquet, and February 26 has been selected as the date in Horticultural Hall. Tickets are \$2.50 each and are limited to 400. They can be obtained at the club meeting on January 21 from any of the officers or members of the executive committee.

A special booklet commemorative of this banquet will be prepared and distributed to all who attend.

W. N. CRAIG, Secy.

VICTORY GARDENS.

Response to the appeal for the planting of "war gardens" in the season of 1918 was made by some five millions of our people. How great was the accomplishment of their effort cannot be stated in cold figures; it defies compilation; but in every part of the land the work of the home-food producers has made its benevolent influence felt. Hard as the strain has been upon our re-

sources, we have been enabled to meet it.

Now we as a nation face a further duty. This is to meet the obligation resting upon us to help in feeding the destitute people of the ravaged and plundered populations of the east. How is this to be met? The success of the past year tells us.

Let the "war gardens" of 1918 be replanted and cultivated as "Victory Gardens." Let their resources be doubled, as the National Commission suggests, and the work will be accomplished. It is a matter of urgency. We may look to see it so recognized.

—Boston Post.

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CONTENTS

	Page
INCREASE YOUR OUTPUT AND YOU WILL MAKE MONEY—A Booster.....	29
THE GARDENER AND HIS RECOMPENSE—M. C. Ebel, portrait	31
CLUBS AND SOCIETIES:	
Gardeners' and Florists' Club of Boston.....	29
Massachusetts Horticultural Society.....	32
American Carnation Society.....	33
Westchester New York Horticultural Society and N. Y. State Fruit Growers' Association.....	39
SOCIETY OF AMERICAN FLORISTS:	
The Publicity Campaign.....	33
POPULAR SELLING WINTER FLOWERING PLANTS—Primula malacoides—Illustration.....	35
THE PLANT IMPORT TANGLE.....	35
OBITUARY—A. W. Vose—Van Earl Leavitt—Capt. George E. Kirk—E. Y. Teas—Wm. H. Coldwell—Wm. H. Amling.....	36-37
SEED TRADE—Investigate Quality of Seed—Regulations for the Importations of Seeds—Disinfect Seed Potatoes Before Planting—Nitrate at Cost.....	38
Seed Trade Notes.....	37
OF INTEREST TO RETAIL FLORISTS:	
"Say It With Flowers"—A. Pochelon.....	40
FLOWER MARKET REPORTS:	
Boston, Chicago, Cleveland, New York, Philadelphia, Rochester, St. Louis.....	43
LOCAL AND GENERAL NEWS:	
St. Louis, Washington.....	37
Chicago, Philadelphia, New York.....	45-46
MISCELLANEOUS:	
Victory Gardens	29
Greenhouses Building or Contemplated.....	33
Restrictions Removed.....	36
Visitors' Register.....	37
News Notes	37
Catalogues Received	39

Flowers by airplane

The dropping of wreaths and floral tributes from air planes has been more or less in vogue in Europe during the war and for the last few days at Oyster Bay. While it is possible to carry and deliver flowers by airplane, it will probably be a long time before it is put in practice. Flowers are bulky when packed, liable to freeze in high altitudes, and the airplane is therefore not a

promising vehicle, for florists' delivery—but it will undoubtedly be used for certain special occasions. Which of our enterprising florists will be the first to use it?

Business improvement

There are now indications that the spring trade will come in considerably larger volume than last year. While higher taxes and another government loan are in sight there is the expectation that that loan will be the last and that taxes may be gradually reduced. Labor has already become easier and it now looks that very soon there will be no acute shortage. The difficulty of getting labor has caused the postponement of much building and landscape improvement which it is likely will be undertaken, during the coming season.

Plant embargo a blow to horticulture

Every reader of HORTICULTURE should now realize what the enforcement of the new plant embargo which takes effect June 1st next will mean to the horticultural trade. It means among other things, the complete exclusion of all nursery and greenhouse stock for forcing purposes, and practically all trees, shrubs, woody vines, conifers, rhododendrons, roses, boxwood, bay trees, etc., used for outdoor planting and decoration. It is questioned whether the action taken by the Federal Horticultural Board is in accordance with the law as enacted by Congress; it seems certain, however, that it was not intended as the spirit of this Act, that the policies and destinies of the entire horticultural trade with its millions of dollars of investment, should be arbitrarily jeopardized by any unwise or unjustified action on the part of that Board. Horticultural interests will suffer greatly by the application of the embargo and we believe that it will later be revoked, when its evil effect shall have been felt, but that will be too late to save from ruin, the victims of its enforcement.

Money prizes

The Massachusetts Horticultural Society is now considering—as are other societies engaged in similar work—the proper course to pursue in carrying on its work in the immediate future—with the curtailed use of coal and shortage of labor, few establishments are in position to grow material suitable for exhibition, and with the exception, perhaps, of orchids, there is very much material in existence. The average grower is endowed with more or less public spirit and takes pride in exhibiting his products whether money prizes are offered or not. Usually he regards the money prize as an offset to his expense in making an exhibit. The value of the money prize lies in making it large enough to attract competition and thus stimulate enthusiasm for high grade exhibits. To be effective it should be announced long in advance so that the proper material may be grown. A good flower show cannot be staged without long preparation, and ample time for this work is quite as important as the money prize. We believe that better results will be had by concentrating funds for more attractive prizes in larger exhibitions. We understand that the Massachusetts Horticultural Society is now considering the advisability of holding a large orchid show in 1920.

THE GARDENER AND HIS RECOMPENSE

By M. C. Ebel

In broaching the subject of the gardener and his recompense, I am not unmindful of the fact that I am venturing on troublesome waters and courting criticism from many directions, but if the effort proves successful in stirring up a discussion among those gardeners who are capable of taking an active interest in the welfare of their profession, but who appear to lack all interest in it, I shall be satisfied that it has not been in vain.

The question of recompense is of vital interest to most gardeners, but there has always seemed to be an aversion to refer to it when gardeners are in conference. Preachers, doctors, and lawyers do not avoid it when they confer for their mutual benefit, and no sound reason can be advanced why gardeners should refrain from discussing what should constitute a just compensation for the services they can render any more than those engaged in other vocations doing so.

Before we approach the subject further, however, let it be distinctly understood that this is not the introduction to a propaganda with an ultimate motive of unionizing the gardening profession, for I am already on record as strongly opposed to any such action, because it is unprofessional and impractical. I am simply endeavoring to bring to light some of the unfavorable conditions which are mainly responsible for the failure of the average gardener, vested with responsibilities, to receive what he is justly entitled to, to be at all commensurate with what men, engaged in other fields of endeavor and assuming no greater responsibilities, are receiving.

I do believe that there are small places limited to lawns, shrubs, flower and vegetable gardens, comprising in all but a few acres, with little or nothing to occupy the gardener's time, in winter and, where a gardener, content with such a position, receiving \$75 to \$85 a month with cottage and usual privileges, is as well compensated as is the average country minister, lawyer or physician of a small community, though the latter have to devote considerable time and money in study before they can obtain a degree to practice. But, when it comes to country estates in which large amounts of money have been invest-

ed, the situation becomes an entirely different one.

Take, for instance, an up-to-date country estate, even of moderate size, where the gardener in charge, whether under the title of superintendent or merely gardener, has responsibilities that continually occupy his time and attention, and where any laxity on his part may be the cause of much damage, simply through the acts of the elements causing destruction to valuable plantings, while on more pretentious places, the responsibilities increase and frequently include the charge of modern farms with all the departments they comprise, as well as gardens and greenhouses. It is among this class of gardeners that the



M. C. EBEL

value of the services rendered is not as generally recognized as it should be.

To assume that a gardener, entrusted with property in which the expenditure of thousands, yes, in many cases hundreds of thousands of dollars, were involved in the development, with a greenhouse range housing valuable collections of plants, accumulated through many years of culture and care, that might be entirely destroyed by one night of neglect, and in some instances with the additional care of valuable cattle, not to mention the many other departments of a complete country estate, is properly paid at \$150 a month or thereabouts, with

a cottage and some privileges included, is not sound business principle. No business man would regard it so in the case of a superintendent of an industrial plant, with no more invested in it than in a country estate such as has been described, and with responsibilities far less hazardous receiving an equivalent salary.

And yet there are captains of industry, financiers, and other men of affairs, owners of extensive country estates, who believe that their gardener is amply rewarded with such a meager salary as mentioned.

In reasserting what I have often asserted, that the failure in receiving proper recognition lies within the profession itself, and that the owners of country estates are not entirely to blame for being able, as they believe, to secure capable gardeners to manage their places at small salaries, will not be relished among the rank and file of gardeners. It is nevertheless true for the blame rests with irresponsible men, habitually looking for positions, and claiming to be efficient gardeners with few qualities to entitle them to the calling.

These men, when they "hear of a job going," to use their phraseology, compete for it and in their anxiety to "land the job" will accept a wage that would put a present-day garden laborer to shame to accept. It may seem strange, but it is so, that there are many estate owners who measure the standard of the gardener by these interlopers, because they have never come into contact with a gardener truly representative of the profession.

What are the consequences? When a gardener thoroughly efficient in his vocation, but lacking the nerve of the regular job hunter, does apply for a position, which in the past has been occupied by what we may designate as mediocre gardeners, it is usually impossible for him to convince the estate owner that he is justified in asking the salary he is entitled to.

What is the remedy? You find me in the position of the politician, advocating reforms without a solution to offer to bring them about. But all problems are solved in time, and if those interested in solving this important problem of the gardener, will give some thought to it, we shall soon arrive at a practical solution. It is

most important, first of all, that the estate owners be fully informed that there is a most decided difference between the thoroughly practical gardener, who has acquired his knowledge through life long training, and those who possess but a haphazard knowledge gained through a few season's work in gardens as laborers, doing odd jobs out of season, and then launching forth as full fledged gardeners.

It has been my experience in coming in contact with country estate owners, though there have been exceptions, when the matter is properly presented to them, that, through efficiency, economies in labor and in general expenditures result with will more than offset any difference between a poorly paid, incapable gardener, and a well paid, thoroughly reliable gardener, who through his efficiency obtains the greatest results at the least cost, that efficiency is preferred.

I have met gardeners who have occupied one position for years, giving entire satisfaction to their employers, but receiving the same amount of pay that they received when they first accepted the position. They were dissatisfied and complaining, but were venting their grievances on those wholly disinterested in them, while lacking courage to approach their employers, who in all probabilities felt that their gardeners were content with their lot. To such a gardener I offer the suggestion that he approach his employer in a businesslike manner, but not at a time when his financial horizon appears clouded; direct his attention to the fact that the cost of children's shoes have more than doubled in price in the past four years, and other living expenses in proportion, and if he is a reasonable employer, he will recognize the force of the argument. If he is not, let the gardener abide his time, and when a better opportunity present itself, accept it. Gardeners with "no encumbrances" must modify the argument, though no doubt even those so unfortunate as to occupy single men's positions have felt the sting of the high cost of living.

The question often arises, what should be a suitable salary for a gardener? There can be no agreed scale on which to base an answer, for there are no two places with conditions just alike, and it remains a matter of negotiation between employer and employee. It can be reiterated in this connection, however, that on but few of the extensive country estates, the

gardeners are receiving salaries that are anywhere nearly in proportion to salaries received by men in other occupations, whose positions entail no greater responsibilities than those of an estate superintendent.

Before concluding, I am going to refer to a subject that has recently been much agitated in elite garden circles. Just why gardeners and the horticultural business should be singled out in a crusade against a practice as old and as far reaching as trade itself, is not apparent, for the Federal Trade Commission states that investigation has revealed commercial bribery to be general throughout many industries.

There are black sheep in every profession and the gardening profession has never claimed immunity. There are unscrupulous lawyers; there are quack doctors; there are bad ministers; but their professions are not condemned for it, so is it just to attempt to discredit the gardening profession for the misdeeds of a few in it. I can conscientiously declare that in my wide experience with men in all stations of life that, taken as a whole, I have not found a more reputable or cleaner body of men than is to be found among the professional gardeners.

In this proposed campaign to abolish the paying of gratuities or commissions, many measures are outlined but no amount of new legislation, adoption of resolutions, or enactments of pledges will prove effective for there are already statutes on the books of most states to prohibit it, if they could be enforced. There is but one means to minimize the practice and that is to lift those in position to be recipients of gratuities above the temptation of accepting them by adequately paying them for the services they render.

It is regrettable that almost invariably the instigators of this discrimination, which Governor Edge of New Jersey in vetoing a bill this year, directed solely at the horticultural interests, termed class legislation, are those usually guilty themselves of unprofessional conduct in demanding rebates of firms on business they may direct their way. It would indicate that the motive is selfish rather than altruistic, and with the purpose of casting suspicion to further their own aims. I have found that what most professional gardeners may lack in the suavity of men of other professions, they possess in integrity and that their profession will bear as close scrutiny as any of the allied or other professions

MASSACHUSETTS HORTICULTURAL SOCIETY.

The Inaugural Meeting of the Massachusetts Horticultural Society for the year 1919 will be held at Horticultural Hall, 300 Massachusetts Avenue, Boston, at 12 o'clock noon, on Saturday, January 11, 1919.

The business of the meeting will be the hearing of an Inaugural Address by the President, the report of the Board of Trustees, the reports of officers, and the reports of the chairmen of the various committees, which reports will be open for discussion and action.

There will be also an exhibit of fruits and vegetables for which small prizes are offered:

Apples, one plate Winter apples, twelve specimens; Pears, one plate Winter pears, twelve specimens; Cucumbers, four specimens; Lettuce, four heads; Mushrooms, twelve specimens; Tomatoes, twelve specimens; Collection of Vegetables, six varieties.

The first of the winter course of lectures on horticultural subjects will be given at two o'clock by Dr. Will W. Tracy of the U. S. Department of Agriculture, Washington. The subject will be "Varietal Adaptation of Vegetables to Local Conditions."

The following program of lectures and discussions will be held during the season of 1919 at Horticultural Hall, Saturdays, at 2 o'clock P. M., unless otherwise stated.

January 11—Varietal Adaptation of Culinary Vegetables to Local Conditions. By Dr. Will W. Tracy, U. S. Department of Agriculture, Washington, D. C.

January 18—The Culture of Conifers. By A. H. Hill, Specialist in Evergreens, Dundee, Ill.

January 25—Home Garden Fruits. Illustrated. By Prof. M. G. Kains, Columbia University, New York.

February 1—Gardening After the War. By Leonard Barron, Editor The Garden Magazine, Garden City, New York.

February 8—Land Drainage; Its History, Its Problems, and Its Possibilities. By Arthur E. Horton, Consulting Engineer, Lexington, Mass.

February 15—Protecting American Crop Plants Against Alien Enemies. Illustrated. By Dr. B. T. Galloway, U. S. Dept. of Agriculture, Washington, D. C.

WILLIAM P. RICH, *Secretary*.

Over 1,000,000 bushel dry beans were exported to Belgium July 1 to October 1.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

NATIONAL PUBLICITY CAMPAIGN.

The Publicity committees have been able to extend their plans as previously announced so that the January and February magazine advertisements are now to appear in 33 national magazines, instead of 27 as previously arranged. The additions are Pictorial Review, McClure's, System, Christian Herald and Judge. Altogether, our list will provide a circulation of 12,000,000 for some of the advertisements, and only a trifle less for others.

In all of these advertisements our slogan, "Say it with Flowers," is paramount. Our Promotion Bureau has had ample demonstration of the efficacy of this slogan through the numerous requests received for its service in individual transactions, from Palestine, South Africa, France, Great Britain, Cuba, Brazil and other countries, the correspondents, without knowledge of us other than obtained through our advertising, sending their money with their requests, thus evidencing their pleasure in being able through us to make flowers their messengers in the transmission of sentiments from points most remote.

What such business has amounted to here at home, we are, of course, unable to state, although many contributors to our fund who have been

on the lookout for evidence of results from the campaign work advise us of their complete satisfaction with results as brought to their knowledge, and cheques for their 1919 subscriptions are coming in accompanied by hearty endorsements of our plan of campaign.

Our Promotion Bureau has just completed the mailing of many thousands of pamphlets describing its direct service aids to those who, through their local advertising, desire to connect their establishments with the national magazine advertising. Any florist who has not received a pamphlet should write at once to the secretary for one.

We have now entered upon the second year of the campaign, and are starting under conditions which are much more favorable than those we had to contend with last year. Practically, the day for the suspension of any "non-essential" has passed, and flowers need no longer be tabbed with a bugaboo term. The public has accepted our slogan, "Say it with Flowers" as forcefully suggestive, and it is up to us to make it a thousand times more impressive, that our products may be always in mind, and their peculiar fitness as mediums for the conveyance of sentiment readily recognized as occasions may arise.

To attain this, money is needed, and

the money must be provided by the florists themselves. It is estimated that there are between 15,000 and 20,000 florists in the country, yet last year we were able to collect a fund of less than \$50,000 only. It may have been because our project was more or less experimental. This year there is no experiment about our work. We know what we are doing, and the amount of good we may expect.

To every florist who has his business at heart, but who has not booked himself for a subscription to the 1919 Campaign, we are putting the question, "Are you with us? If not, why?"

The 1918 Campaign.

Previously reported.....	\$45,344.25
John H. Stalford, Bar Harbor, Me.....	10.00
Strout's, Inc., Biddeford, Me.....	15.00
A. Rassmussen, New Albany, Ind.....	25.00
J. Geo. Jurgens, Northport, N. Y.....	5.00
Ernest J. Bush, Wilmington, N. C.....	5.00
Frank Winans, Petoskey, Mich.....	5.00
Dealers' Helps	200.00

\$45,609.25

Subscriptions close for year 1918 with the grand total of \$45,609.25.

The 1919 Campaign.

Fund opens with contributions for four years amounting to \$26,130.50. These subscriptions due now.

Additional subscriptions, annually per year	\$26,130.50
E. C. Amling Company, Chicago.....	100.00
Gallivan Bros., Holyoke, Mass.....	10.00
T. D. Hefko, Mansfield, Wis.....	5.00

Total

\$26,245.50

JOHN YOUNG, Secretary,

1170 Broadway, New York.

Jan. 4, 1919.

AMERICAN CARNATION SOCIETY.

The annual convention of the American Carnation Society is to be held in Cleveland, January 29 and 30, 1919. The members of the S. A. F. and O. H. are invited to join in this meeting and assist in making it a fitting trade celebration of the worldwide return of peace.

There never existed better incentive to pack a bag and for a couple of days hobnob with fellow-craftsmen than this great meeting offers. The privations of war are over and the blessings of peace are again to be enjoyed. A day of better business ideals, better prices, better flowers, and a greater degree of co-operation, in all ramifications of the trade, is here, and upon its proper realization the success of the future vitally depends.

The organized trade in Cleveland is keenly alive to the importance of this great occasion, and is preparing to do its utmost to make it a memorable one. It expects you to be present.

NOTES.

Charles R. Russell, superintendent of Mrs. Finley J. Shepard's estate in South Broadway, was elected president of the Tarrytown Horticultural Society. Other officers elected are as follows: John Grant, vice-president; Edward W. Neubrand, secretary; John Featherstone, treasurer, and William Jamison, recording secretary.

The annual conventions of the Tennessee State Florists Association, the Tennessee State Fruit Growers Society, the Tennessee State Nurserymen's Association, and the Tennessee Bee-

keepers Association will be held in Nashville on January 28-29-30-31, respectively. All persons interested in receiving programs or other information should write direct to G. M. Bentley, secretary-treasurer, Knoxville, Tenn.

GREENHOUSES BUILDING OR CONTEMPLATED.

Sullivan, Ind.—Edgar Beck, Maple Park Farm, vegetable house 30 x 150.

An orchid named "The Marshal Foch" and another called the "M. Clemenceau" each won medals at a Royal Horticultural Society show held in London recently. The Marshal Foch is deep maroon with yellow-crested, mauve-tinted labellum, the M. Clemenceau is similar, with five heads on one stem.

Protest Against the Horticultural Import Prohibition

You are, of course, familiar with the recent ruling of the Federal Horticultural Board at Washington which prohibits, after June 1, 1919, the importation of all plants and bulbs, in which the Nursery, Seed and Florist trade is interested, excepting the following few items: Lily bulbs, Lily of the Valley, Hyacinths, Tulips, Narcissus and Crocus—absolutely nothing else in the line of bulbs can be imported from any foreign country.

In the line of plants you may bring in fruit-tree stocks, seedlings, cuttings and scions of fruit trees, and you may import Manetti, Multiflora and Rugosa Rose stocks for budding or grafting but absolutely nothing else in the way of plants.

Do you realize how radical and far-reaching this embargo is, and how seriously it will affect, not only every importer, but every individual in the trade who handles bulbs, plants or cut flowers; from the largest importer down to the smallest grower, florist or dealer?

There will be no Azaleas, Rhododendrons, Spireas, Araucarias, Dracenas or Boxwoods. Orchids will only be a memory, and there will be missing in our stores and in our gardens, hundreds of other varieties of plants and cut flowers on which heretofore we have depended upon European sources and which were profitable for the American grower to develop and were a source of revenue to the retailer.

Many of these subjects will never be produced in this country and such that, after years of preparation, may become developed here, will necessarily have to be sold at a price which will make them prohibitive to the average present purchaser of this class of stock.

One of the peculiar points in this ruling of the Federal Horticultural Board, which we are unable to harmonize with the Board's effort to prevent the risk of importing dangerous pests, is the fact that they consider it safe to import Manetti, Multiflora and Rugosa Roses for budding and grafting purposes but do not consider it safe to let these same roses come in with named varieties (such as Killarney, Ophelia, Radiance or other sorts) grafted or budded upon them. The root of the Manetti, the Multiflora or the Rugosa remains the same, but the top will be that of the named variety, i. e. Killarney, Ophelia, Radiance or whatever the variety may be and it is absolutely impossible for an insect to be imported on the one and not on the other, so, why should these Rose-stocks be permitted to come in (in which only a very few growers who graft or bud roses are interested or benefited) and the named varieties, in which practically everyone who grows and sells plants is interested, be excluded?

Furthermore, if it is safe to import a Lily bulb, a Lily of the Valley, a Hyacinth, Tulip, Narcissus or Crocus, what infestation affects the hundreds of other bulbs that are excluded that justifies the Board to say, "You are not to bring in a Dahlia, Tuberous-rooted Begonia, Gloxinia, Gladiolus, Spanish Iris, Oxalis, Scilla, Snowdrop, Crown Imperial or other equally harmless bulb?"

There have been two meetings of the Federal Horticultural Board at Washington, D. C., during the past six months—one of them on May 28, the other on October 18, to which all interested in this subject were invited to be present and to offer protests if any. At both meetings the Nurserymen's Association, as well as the Legislative Committee of the Society of American Florists and Ornamental Horticulturists, and a number of individual growers were present, all of whom gave valuable data for the proper enlightenment of said Federal Horticultural Board. They were most cordially received, attentively and patiently listened to—even thanked—for the information given, but that is all.

Why all this information which was given in good faith has been turned down, the Federal Horticultural Board does not tell us; they simply say: "After June 1, 1919, you cannot import anything but the few items in bulbs, fruit-tree stocks and roses for grafting purposes noted above."

Whether the action taken by the Federal Horticultural Board is in accordance with the law as enacted by Congress, which created their power, we do not feel competent to pass upon, but we are satisfied, however, and confident that it was not intended as the spirit of this Act, that the policies and destinies of the entire Horticultural Trade, with its millions of dollars of investment, should be placed in the hand of five (5) members of the Department of Agriculture.

Your Congressman has the means of finding this out, and if you will appeal to him for aid in the matter we are certain that he will investigate and see to it that such power, if it exists, is changed so that the Horticultural Trade will be placed in the high position to which it is entitled.

Finally: For more than four years our country has cheerfully assisted and helped to keep a great portion of the Belgian population from starving; this embraces the great plant-growing districts around Ghent and Bruges, where, before the war, upwards of one thousand nurseries were operated; a large part of whose products was exported to the United States. We have sent our kin and friends to bleed on the battlefields of devastated Belgium to help to return these people to freedom, and, now that this has been accomplished and they are preparing to take up their customary vocations in anticipation of supporting themselves as they have always bountifully done before, and they come to us and offer us their horticultural specialties, as they did before the war (the majority of which we cannot procure elsewhere or which we cannot produce ourselves) we will have to hold our hands up in horror and say:

"While we have cheerfully helped to feed and clothe you and while our soldiers have died on the battlefield to give you your freedom, we cannot buy your Azaleas, Bay trees, Norfolk Island Pines, Rhododendrons, Palms, your Begonias, Gloxinias and other specialties (as badly as we need them) because there is a Federal Horticultural Board of five men in Washington who, while they have no record that you have in the past sent us any insect pests that have been dangerous to our country, they fear that there may be such pests hidden away in your country and that these might, in leaf or soil, escape the rigid examination which your entomologists give them before you ship them, and that they might even escape the careful examination which our State and Federal Departments give them on their arrival here, and thus become a serious menace. While you continue to have our sympathy, we cannot think of purchasing your horticultural products!"

Think it over, and if you want to assist to place Horticulture in its proper position, write to your Congressman at once. He will stand by what is right if you submit the facts properly to him.

HENRY A. DREER,
714-716 Chestnut Street,
Philadelphia, Pa.

McHUTCHISON & Co.
95 Chambers Street.
New York, N. Y.

POPULAR SELLING WINTER-FLOWERING PLANTS



PRIMULA MALACOIDES

THE PLANT IMPORT TANGLE.

Secretary D. F. Houston of the Agricultural Department, Washington, has sent another reply to Senator Calder of New York, in response to a letter addressed to the Senator by Winfred Rolker. In this reply the Secretary refuses to interfere with the action of the Federal Horticultural Board and it will now rest with Congress to define the rights of the Board, and to take action in protection of the florists trade, sadly to be interfered with by this latest quarantining regulation to go into force June 1, 1919. The trade is again requested to take immediate action, if they object to such quarantining, by protesting with their respective Congressmen, Representatives as well as Senators of their State. Herewith a form of protest, which can be either copied verbatim and sent to the Washington Congressmen or changed according to the views and inclinations of each protesting florist and nurseryman. Landscaping Archi-

ects, Park Superintendents, Private Gardeners, and anyone interested in the beautiful occupation to cultivate plants and their flowers, is requested to join in protesting.

Following is the form of protest.

Place and date, 1919.

Hon., M. C.

Washington, D. C.

Sir:—

Will you kindly oblige me, one of your constituents, by using your personal influence with the Hon. D. F. Houston, Secretary of Agriculture, to rescind, revise, or modify the latest rules and regulations for the quarantining of imported plants and bulbs, issued by the Federal Horticultural Board, a sub-division of his department, and to whom he relegated such work. To my best knowledge such extreme drastic, nearly total, exclusion of PLANTS and BULBS importations is not warranted by existing facts, nor by the conditions called for under Section 7 of the Plant Quarantine

Act of August 20th, 1912, on which section the Board bases its authority. No disease nor dangerous insects are specified, no localities nor countries are named in the promulgation from where to expect such new dangers; only a general sweeping assertion is made. Further only six varieties of bulbs are allowed entry, and these under impracticable restrictions, when hundreds or more equally innocent kinds of bulbs are excluded. Rose stocks for propagating are allowed entry, but the rose plants, budded or grafted on such stocks are excluded, without any apparent cause or explanation.

Why shall the Horticultural Trade of America be made to suffer in order to avert apparently much exaggerated dangers; a trade that has supported our government in the Liberty Loan Campaign and in the Red Cross work most loyally and at considerable personal sacrifice. Are we, a body of more than 10,000 working florists, sim-

ply to be non-considered? And how does this promulgation agree with the U. S. War Trade Board's pronounced desire to aid and support the industries of our allies, and in first line those of countries devastated by the enemy, like poor Belgium? Surely, if nothing be done otherwise, an exception should be made in favor of this country, the horticultural products of which have in past years been largely and advantageously handled by our American trade.

Please take prompt action with the Secretary of Agriculture in person, not with the "Federal Horticultural Board," by personal request for his reconsideration, and oblige,

Yours very respectfully,

Signature

RESTRICTIONS REMOVED.

Licenses will hereafter be freely issued for the importation into the United States of plants, trees, shrubs and vines, including bulbs, according to an announcement of the War Trade Board. The Board has removed these items from the list of import restrictions and has so far revised its regulations regarding exports as to permit the free transportation of flower seeds (except of oil-bearing plants) and shrubs, destined for European Holland, Denmark, Sweden or Norway, which applications should be accompanied by such supplemental sheets as may be necessary, and shipments may be addressed directly to the consignee named in the export license or to order, provided they are not shipped for account of a firm on the enemy trading list, and also that all the rules, regulations and directions of every nature whatsoever, issued by the Priorities Division of the War Industries Board, will be lifted, and all pledges heretofore made on the suggestion or request of that Division will be revoked. This information has just been made public in an official announcement by the War Industries Board accompanying an order issued by Judge Edwin B. Parker, Priorities Commissioner.

Kingston, R. I.—The R. I. State College states that during 1918 over 4,856 garden reports were sent in from garden clubs representing an average value of \$20.02, and a cost, excluding labor, of \$6.18 and that garden and canning club members together produced and conserved over \$130,000 worth of food products.

Obituary

A. W. Vose Dead.

Alonzo W. Vose of Attleboro, Mass., died at his home in Cumberland Hill, Dec. 23. Mr. Vose was for over 50 years connected with the florist business.

Van Earl Leavitt.

Van Earl Leavitt died suddenly Monday morning, Dec. 23, 1918, at his home in New Brunswick, N. J., after a few days' illness with influenza complicated with pneumonia.

Mr. Leavitt was born in Laconia, N. H., September 19, 1891, and had been employed as superintendent of a large horticultural estate in Southampton, L. I. In the fall of 1914 he was appointed to the position of horticulturist at the New York State School of Agriculture at Morrisville, N. Y., which position he held until July 1, 1918, when he resigned to accept the position of extension specialist in fruit growing at the New Jersey State College of Agriculture at New Brunswick.

Captain George E. Kirk.

Capt. George E. Kirk, of the regular army, son of Mr. and Mrs. Edward Kirk of Bar Harbor, Me., died of pneumonia at a base hospital located on the edge of the Argonne Forest, France, on Nov. 20.

Capt. Kirk entered the officers' training camp at Fort Niagara and was graduated in the autumn of 1917 with the rank of second lieutenant. He was attached to a machine gun company and received further training at Gettysburg, Pennsylvania. He was at home the early part of last winter for a short visit and sailed shortly after for overseas. During the severe fighting of last summer and the early fall he took a very heroic and active part, having participated in the battles of Chateau-Thierry and St. Mihiel and other desperate fighting and for gallantry in action was promoted to first lieutenant and later to captain. He was a member of the 4th Machine Gun Battalion, Co. A. He was without question one of the most highly respected and deeply loved young men in Bar Harbor and was 24 years old.

E. Y. Teas.

E. Y. Teas, a veteran horticulturist and nurseryman passed away Dec. 15 at Eaton, O., after a brief illness. He was in his eighty-ninth year and is

survived by his wife and a daughter, Mrs. J. E. Parker.

He was one of the twenty-one charter members of the Indiana Horticultural Society in 1880, and was also one of the earliest members of the American Association of Nurserymen.

In 1842 he started in business with his brother, J. C., growing orchard trees in a small way, which soon developed into an extensive nursery business.

The firm of E. Y. & J. C. Teas supplied the eastern trade with many varieties of fruit trees of western and southern origin and in 1844 the brothers commenced the growing of catalpa trees from seed. They placed the first seedlings of *Catalpa speciosa* sold commercially in this country. The hardiness of this variety has brought it into wide acceptance and millions of it have been used. He was the first disseminator of Garber's Hybrid pear and of the Lucretia dewberry. He also produced the variety of sugar cane known as Early Amber from seed selected in Paris, in 1859-60, and originated the President Wilder currant.

William H. Coldwell.

William H. Coldwell, president of the Coldwell Lawn Mower Co., died in his home on Montgomery street on Christmas eve, following a paralytic stroke, sustained shortly before 3 o'clock on Tuesday afternoon. Mr. Coldwell was in the office of the lawn mower company during the morning apparently in his accustomed good health, and went home at the lunch hour. He is survived by his wife, a sister of A. S. Peirce, of the Coldwell-Wilcox Co.; by a son, Kenneth P. Coldwell, a soldier in service in France; and by a daughter, Mrs. Van Winkle, of Newark, N. J.; also, by a brother, Harry Thomas Coldwell, who represents the Lawn Mower Co. at its Chicago branch.

William H. Coldwell was a son of the late Thomas Coldwell, and was born on May 6, 1863, in Dutchess county, where the parents resided previous to locating the lawn mower plant in this city. His education was acquired in the public schools of Newburgh, and his entire life with the exception of his early years were passed here. He was one of the most prominent figures of the social and industrial activities of the city.

In addition to being a talented entertainer and genial companion, he was possessed of much inventive genius, and many of the improvements and advances that have made the New-

burgh product famous the world over are due to him.

He was appointed to be one of the Park Commissioners of the city of Newburgh, and this possibly was the office he filled with greater satisfaction to himself than any other, and Superintendent Haible found in him an able co-worker.

He was a member of the Newburgh City Club, the Hardware Club of New York, the New York Consistory of Scottish Rites, of Mecca Temple, A. A. O. N. O. M. S., Newburgh Lodge, No. 247, B. P. O. E., of the Dutchess County Association and other organizations.

The funeral of Mr. Coldwell was held on Friday afternoon, interment being in Cedar Hill Cemetery.

Wm. H. Amling.

The death of Wm. H. Amling occurred at the West Suburban Hospital Saturday, Jan. 4th, where he had been for the past month. While it had been known for a long time that he was far from well, his death was unexpected and the news was a surprise to most of his friends all of whom heard it with deep regret.

Wm. H. Amling was born in Maywood, Illinois fifty-two years ago, where he has spent the greater part of his life. His education fitted him for teaching, which profession he followed for twenty-one years, finally following the example of his brothers and growing cut flowers for commercial purposes.

He was successful in this and made specialties of sweet peas and chrysanthemums which he consigned to Zech & Mann for many years.

In 1917 he was president of the Chicago Florists' Club. He is survived by a widow and the following children, Walter A., Herbert and Martin, who are all florists, and Mrs. Fred Wehrman, Mrs. Chas. Belling, Mrs. Mike Drechler and Mrs. Louisa Ginther.

Mr. Amling also had three brothers A. F. and E. C. both florists in Maywood and H. G. in Germany.

The funeral took place Jan. 7th at St. Paul's Lutheran church in Melrose Park and interment was in Oak Ridge Cemetery.

BOSTON.

Charles S. Baxter, former Mayor of Medford and manager of Governor McCall's political campaign was confirmed by the Governor's Council as a member of the Metropolitan Parks Commission. Mr. Baxter was appointed by Governor McCall to succeed Edwin U. Curtis, who was appointed Police Commissioner of Boston.

ROSE STOCK

Be independent, grow your own ROSE STOCKS for budding or grafting. Those using ROSA MULTIFLORA JAPONICA STOCK prefer it to Manetti. We offer for immediate delivery New Crop unhulled Seed at \$4.50 per lb.

McHUTCHISON & COMPANY,

95 Chambers Street
New York, N. Y.

Visitors' Register

Boston—Mr. and Mrs. J. A. Peterson of Westwood, Cincinnati, O.; Dr. L. H. Bailey, Cornell University, Ithaca, N. Y.; John Canning, Ardsley, N. Y.; W. A. Manda, So. Orange, N. J.; Chas. S. Strout, Biddeford, Me.

Philadelphia—Henry Penn, John Young, Wallace Pierson, Isaac Moss and many others from near and far for the monthly meeting of the Florists Club held at the Adelphia, January 7.

Cincinnati—Sam Seligman, representing Schloss Bros., New York City; Julius Dilloff, representing Lion & Co., New York City; Jos. Hill, Richmond, Ind.; J. T. Herdegen, Aurora, Ind., and J. F. Link, Louisville, Ky.

ST. LOUIS

The retailers held their meeting at Knights of Columbus Hall, Monday evening, Dec. 30. It was decided to meet the second and fourth Mondays of the month. A discussion was held on the recent high prices of flowers and the effect it had on Christmas business. It was voted to have a committee to act on wholesalers and growers and discuss conditions.

Joseph Wors, son of C. W. Wors, has been home on furlough from the St. Catherine Hospital, Brooklyn, N. Y. He has been in the navy for twenty months and was accidentally wounded in the foot when on guard duty. He returned to New York January 8th. The eldest son Charles, also in the service, has left Camp Kearney, Cal., for Camp Funston to be mustered out.

WASHINGTON, D. C.

Mrs. D. G. Grillbortzer, of Alexandria, Va., is paying a ten days' visit to friends and relatives in New York City.

Z. D. Blackistone is slowly recovering from the effects of an attack of influenza. To add to his troubles he met with the loss of an automobile delivery wagon in a fire that occurred in a garage where the car was undergoing repairs.

GLADIOLUS "MRS. WATT"

One color, American Beauty rose shade, but more brilliant. Distinctively the Gladiolus for the refined trade at a price within the reach of every nurseryman, florist or private gardener. This variety is being successfully grown in the East, Middle West and in California. Strong and vigorous in growth with no crooked spikes.

Prices, Bulbs, F. O. B. Wilton, N. H.
1 to 1½ inch, \$4.00 per 100; \$30.00 per 1000; 250 at 1000 rate. Planting stock, ¾ to 1½ inch, \$8.50 per 1000.

Send for List and Colored Plate.

HOMER F. CHASE

GLADIOLUS SPECIALIST

WILTON, N. H.

SEED TRADE NOTES

Cleveland, O.—A. C. Kendel has removed to larger and more commodious quarters at 216 Prospect avenue, S. E.

Los Angeles, Cal.—Mrs. M. W. Johansen and sons will hereafter conduct business under the name of the Johansen Sons Co., they having severed their connection with the Johansen Seed Co.

Buffalo, N. Y.—A new incorporated seed firm, the Queen City Seed & Nursery Company will commence business March 1st at 33-35 Chippewa street.

Washington, D. C.—The requirement of the government that export licenses be obtained before American growers and commission men were permitted to send seeds out of the United States to foreign countries is no longer to be enforced. This information has just been made public by the War Trade Board in announcing the removal of peas, garden seed, mammoth clover seed, sugar beet seed and vegetable seed from the export conservation list. This action was taken to date from January 4, 1919.

NEWS NOTES.

Toledo, O.—The Kaminski greenhouses have been leased by G. Breske.

Govans, Md.—Wm. Patterson has purchased two greenhouses from B. G. Merritt, of Colgate and will remove them to his place.

Rugby, N. D.—N. P. Lindberg, proprietor of the Rugby greenhouses, reports he has had one of the best seasons since he has been in the business, having planted all of his houses last spring.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, F. W. Boigiano, Washington, D. C.; First Vice-President, Wm. G. Searlett, Baltimore, Md.; Second Vice-President, David Burpee, Philadelphia, Pa.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

Investigate Quality of Seed.

Nearly 17,000 samples of seed were received for test last year at the seed-testing laboratory of the United States Department of Agriculture in Washington, and 11,349 samples at the five branch laboratories maintained in co-operation with state institutions. All of these samples were examined to determine the quality of the seed and the presence of adulterants. The enforcement of the seed-importation act has served to prevent many shipments of imported seed, unfit for seeding purposes, from being distributed in their original condition. Among these shipments over 675,000 pounds of red clover seed were prohibited entry on account of the presence of weed seeds and dead seed. Approximately one-half of this was recleaned in bond—the weed seeds and other refuse removed being destroyed, while the seed of good quality was allowed to go into the seed trade. The other half of the prohibited red clover shipments was rejected because it contained so much dead seed as to be of practically no value for seeding purposes. Three shipments, aggregating enough seed to sow 16,000 acres at a normal rate of seeding, contained no seed which could be expected to grow in the field. Because of the difficulties of trans-Atlantic shipment, imports of almost all kinds of seed have fallen off, Canada bluegrass from Canada and winter rape from Japan being the only two items of imports which have exceeded those of the previous year.

Pedigreed Peas.

The agronomists of the Wisconsin Experiment station have added pedigreed peas to service in the campaign for higher production. The pedigreed strains have been developed by E. J. Delwiche of the agronomy department at the Ashland Branch station. The seed peas were first placed in the hands of the growers two years ago, after six years' breeding work had been placed upon them. Enough is now available to plant about 300 acres. The pedigreed seed yields two to five bushels an acre more than common varieties and is far superior in quality.

The decrease in acreage of field

peas during the last few years, despite the fact that Wisconsin has the reputation of growing the best crop in the United States, is due to the poor quality of seed which farmers have been forced to use, in the opinion of R. A. Moore of the College of Agriculture. It was this condition which led to breeding up the new strains. The Scotch and green peas have been much improved and pedigreed strains of these and of crossbred varieties have been developed.

Members of the Wisconsin Experiment Association have on hand about 650 bushels of the purebred seed. The list of growers can be obtained from R. A. Moore, College of Agriculture, Madison.

Regulations for the Importation of Seeds.

A new regulation made by an order in council of October 26, 1918, prohibits the importation into Canada of seeds, unfit for seeding, on and after November 1, 1918. These rules apply only to seeds imported in lots of 10 pounds or more. The order affects seeds of all kinds of clovers, grasses, vetches, rape, other forage plants, field root and garden vegetables.

Samples of all lots of seeds submitted for customs clearance shall be taken and forwarded to the Government seed laboratory for examination. Unfit seeds may be cleaned in bond. If when resampled they are still considered unfit for seeding, the shipment must be exported. Unfit seeds may not be mixed with any other seeds.

Disinfect Seed Potatoes Before Planting.

The same disinfectant as applied to wheat last fall to control smut, can be used to control the common scab on Irish potatoes. This disease, as well as several other potato diseases, are carried on the seed. All these diseases can be largely controlled, where potatoes are planted on new land each year, by disinfecting the seed before planting. There are several ways of doing this, but the method recommended by the University of Missouri College of Agriculture for the average grower is to use formalin. Use it at the same strength as for wheat, 1 pint of the 40 per cent. formalin solution, costing about 50 cents, to thirty gallons of water. Ordinarily the seed are put into a sack and immersed in this solution for 1½ to 2 hours. It has been found that the treatment can be reduced to fifteen minutes, if the solution is heated to 122 degrees F. Besides saving time,

the treatment is probably more effective when the solution is warmed. The formalin solution can be used over and over until it is gone. The seed must be treated before cutting and it is better if they can be spread out to dry after being treated.

The sweet potato is also attacked by several diseases carried on the seed tubers. For this reason they should be disinfected before bedding, where the diseases have caused loss in previous years. The material used is corrosive sublimate, 1 part to 1000 of water, or one ounce to eight gallons of water if a crude form is used. The powder should be dissolved in a little warm water, then made up to the right volume. The seed tubers are soaked in this for ten minutes, just before bedding them in the hot-bed. Both Irish and sweet potatoes are important crops in Missouri, and many growers could improve their results by practicing seed treatment.

Nitrate at Cost.

County Agents throughout the United States are to be made representatives of the government in the distribution and sale of nitrate of soda for agricultural purposes. The end of the war has made it possible for the government to take up this work on a large scale and 1919 production in many states is expected to be greatly increased by the use of nitrates.

Announcement of the new plan was made in Connecticut in a telegram received by the Extension Service of the Connecticut Agricultural College, at Storrs, from the United States Bureau of Markets. The telegram states:

"The Secretary's office has announced that the Department, through the Bureau of Markets, will offer nitrate of soda for sale to farmers for fertilizer at \$81 per ton f. o. b. loading points or ports. Arrangements have been made to secure a large quantity of nitrate through the War Department and unless demands are greater than anticipated there will be enough to supply all reasonable requirements."

Farmers interested in obtaining nitrates should apply at once to their local Farm Bureau. The county agent will be supplied with information as to obtaining this fertilizer. Early applications are safest.

War trade board has removed honey and velvet beans from the export conservation list.

WESTERN NEW YORK HORTICULTURAL SOCIETY AND N. Y. STATE FRUIT GROWERS' ASSOCIATION.

A joint meeting of the Western New York Horticultural Society and New York State Fruit Growers' Association will be held in Convention hall, Rochester, N. Y., on January 15, 16 and 17, 1919.

The Program.

Wednesday morning, Jan. 15, 10.30 o'clock—Reports: Legislation, T. B. Wilson and F. M. Bradley; transportation, F. W. Cornwall; treasurer permanent fund, B. G. Bennett; secretary-treasurer, John Hall; secretary-treasurer, E. C. Gillett; announcement temporary committees; nominations; finance; auditors.

Wednesday afternoon, 2 o'clock—Addresses of Presidents: Seth J. T. Bush, Western New York Horticultural Society; W. P. Rogers, New York State Fruit Growers' Association. Botany and Plant Diseases Report: Professor F. C. Stewart, Botanist, State Experiment Station; "Breeding Fruits for New York," Professor U. P. Hedrick, Horticulturist, State Experiment Station; Discussion of Questions.

Thursday Morning, 9.30 o'clock—"The Effect of the Severe Winter of 1917-18 on the Fruit Industry, and its Lessons for the Fruit-Grower," Professor W. H. Chandler, College of Agriculture, Ithaca, N. Y.; "Seasonable Facts of Special Interest on Orchard Spraying," Professor P. J. Parrott, Entomologist, State Experiment Station; "Co-operation and its Accomplishments in New England," Howard W. Selby, General Manager Eastern States Farmers' Exchange, Springfield, Mass.; Discussion.

Thursday Afternoon, 2 o'clock—Report of Committee on Constitution and By-Laws; Election of Officers; "The Agricultural Outlook," Dr. W. H. Jordan, Director New York Agricultural Experiment Station.

Symposium—Tractors and Trucks—In charge of Professors Howard W. Riley, Dept. Farm Mechanics, and G. F. Warren, Dept. Farm Management, Cornell University.

Friday Morning, 9.30 o'clock—Question: Has the Foods and Markets Department of the Farms and Markets Council been of Use to a Fruit Grower or Farmer in the Sale of His Produce? Answer by Dr. Eugene H. Porter, Commissioner, Albany, N. Y.; and a subject to be announced later

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Park, London, England. Send for Catalogue
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 Commerce Bldg., Boston, Mass.

by Prof. G. F. Warren, Cornell University; Discussion.

Friday Afternoon, 2 o'clock—"Central Packing of Fruit," Nelson R. Peet, Niagara County Agricultural Agent, Lockport; Resolutions; Discussion; Unfinished business; Adjournment.

CATALOGUE RECEIVED.

Burpee's Annual for 1919 comes to us this year with its former arrangements completely changed. The size of the book has also been reduced in the number of pages in anticipation that the Pulp and Paper Division of the War Industries Board would order the same. The vegetable classes have been divided into four sections, namely, Edible Seeds, Root Crops, Greens and Salads, and Vegetable Fruits, and the divisions so made will furnish a new chapter in horticultural studies as well as give gardeners and experts something quite new (in catalog arrangement at least) for discussion. There has been no effort made to hold the arrangement of this catalog down to a strict botanical classification, nor will the various vegetables be found alphabetically in their respective chapters, they having been inserted as their prominence in use would warrant. The Index to Con-

tents on page 152, however, makes every subject listed readily found. The pink pages which have hitherto been devoted to novelties are now given over to cataloging the several collections of vegetable and flower seeds that this house has always specialized in. The catalog has its usual attractive cover page in colors and in addition contains 24 pages of colored illustrations, 16 of which are devoted to vegetable specialties and 8 to floral.

Cincinnati—Miss Laura Murphy, as secretary and treasurer of the Christmas Fund Committee of the florists, received the first acknowledgments from overseas last week.

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My Brother Florist and F. T. D.
Friends:

Our profession has had a strenuous
time for the past few years, let us all
be thankful that we are almost over it.

The future can bring nothing but
the greatest benefit and never was
there a better chance to elevate our
profession in the eyes of the public.

Our work is coming to the front
where it is compensated in the same
measure as other professions and while
perhaps a lot of us do some tall kick-
ing at the high prices, I want to say
that they are not at all out of propor-
tion with other industries and when
you think our production has been cut
down 50 per cent. by the fuel shortage
and various other troubles that have
come up during the past few years.

As a whole we all have suffered but
not to any extent as some people.

Let us be fair and liberal. Never in
the history of the floral industry have
we had anything which means so much
to everyone connected with our pro-
fession than our Publicity Campaign,
"Say it with Flowers".

This slogan and publicity means so
much to all of us that it is not more
than right that we all support it.
Nearly every member of the F. T. D.
has pledged himself to an annual
amount for 4 years. The men who
have worked their brains hard and
unselfishly to carry this forward must
have the entire support, principally
of the retail florists who benefits more
direct from this publicity than anyone
else.

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They have done this for you and me. Their funds for this year are still a little short. Let us be liberal and send an extra check, no matter if only \$5.00, \$10.00 or \$25.00 aside from our annual contribution. If every member helps along a little we will reach the mark before we start the most prosperous year of 1919.

Remember, this is *absolutely voluntary with you* and if you feel like helping our profession and yourself show your appreciation to the men carrying on this work, send me your check and I will forward it to the publicity fund.

Let us be able to tell the florist world that the Retailers are the staunchest supporters of the slogan "Say it with Flowers".

ALBERT POCHELON, Secy. F. T. D.

Willimantic, Ct.—"Hereafter the bringing of flowers into this church at funerals will be barred," was the remark made by the Rev. John E. Clark, pastor of St. Joseph's Church, at masses last Sunday morning. He said that flowers were tokens of expression of many meanings. In the case of death it was not so much for sympathy, but rather a custom. The covering of a casket with flowers in front of the altar seemed like parading the deceased and was out of place in the holy confines of the church. Rev. Fr. Clark did not say that people who felt so inclined should not purchase flowers as tributes, but that they would not be allowed in the church at requiem masses.

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WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Jan. 9		ST. LOUIS Jan. 6		PHILA. Jan. 6	
Roses						
Am Beauty, Special	50.00	to 75.00	50.00	to 60.00	80.00	to 90.00
" " Fancy and Extra	35.00	to 50.00	30.00	to 40.00	60.00	to 75.00
" " No. 1 and culls	10.00	to 20.00	12.00	to 20.00	35.00	to 50.00
Russell	15.00	to 35.00	15.00	to 30.00	25.00	to 50.00
Hadley	15.00	to 35.00	10.00	to 15.00	10.00	to 40.00
Mock, Key	15.00	to 35.00	5.00	to 25.00	.....	to
Arenberg, Hoosier Beauty	10.00	to 30.00	15.00	to 35.00	18.00	to 30.00
Ward, Hillingdon	15.00	to 35.00	10.00	to 25.00	.....	to
Killarney, Key, Taft	15.00	to 35.00	10.00	to 25.00	10.00	to 25.00
Ophelia, Sunburst	15.00	to 35.00	12.00	to 25.00	10.00	to 25.00
Carnations	8.00	to 12.00	4.00	to 6.00	8.00	to 1.00
Cattleyas	50.00	to 75.00	.....	to 75.00	60.00	to 75.00
Lilies, Longiflorum	25.00	to 35.00	.....	to 25.00	25.00	to 30.00
Lilies, Speciosum	8.00	to 20.00	.....	to	5.00	to 8.00
Lily of the Valley	4.00	to 8.00	8.00	to 10.00	.....	to
Snapdragon	.....	to	8.00	to 15.00	15.00	to 20.00
Violets	1.00	to 2.00	1.50	to 2.00	.....	to 2.00
Stevia	2.00	to 3.00	.....	to .....	.....	to
Calendula	2.00	to 4.00	4.00	to 8.00	6.00	to 8.00
Sweet Peas	2.00	to 4.00	2.00	to 3.00	1.50	to 4.00
Gardenias	.....	to 100.00	.....	to .....	.....	to 50.00
Adiantum	1.00	to 1.50	1.00	to 2.00	1.50	to 2.00
Smilax	.....	to 25.00	.....	to 25.00	25.00	to 30.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	35.00	to 50.00	35.00	to 50.00	50.00	to 60.00

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Flower Market Reports

Conditions have changed **BOSTON** completely in the market the past week and prices have dropped almost to a normal plane once more but even under these conditions there has been no great demand, while the supply remains about the same. Roses are of excellent quality and while carnations have shortened up somewhat, they have improved both in size of flower and stem. Sweet peas are still scarce as are also cattleyas. Lilies are selling well but are not over abundant while violets move slowly.

Generally satisfactory **CHICAGO** is the report of the condition of the market as voiced by both wholesaler and retailer. Some are moving their stock more readily than others but there is little left after the day is over. The first week of the new year did not show the usual decided falling off of the regular demand for flowers so often noted, for the need of funeral work continues. There was of course no call for the plants and gifts incident to the holiday trade but a good shipping demand and fair local call took care of a large amount of incoming stock. Carnations are perhaps the nearest to being in excess of demand but the large number of splits is largely the cause of this. However, some of the out of town customers are still wary about sending in orders without first making sure of the price, remembering their experience of last month.

The cut of roses has been increased by a few days of sunshine but the time is not near when there will be more than the market needs. Miscellaneous stock is in only fair supply. Green brings a good price and nothing goes to waste. The dealers in holly and Christmas trees had a new experience and the prices asked may have been necessary, but the result was that many learned how easy it is to get along without buying and may remember it next year.

The opening days of **CLEVELAND** the new year finds supply slightly in excess of demand. Receipts of carnations are liberal and for the first time this season there is some stock left, which, however, clears up during the day. The call for short and medium grade roses is persistent, and fancy lengths are being sold below their value to help fill the requirements for funeral purposes. Ophelia is in great request, and much greater quantities of it could be moved daily. Choice

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI		CHICAGO		BUFFALO		PITTSBURG		
	Dec. 16		Jan. 6		Jan. 6		Jan. 6		
Roses									
Am. Beauty, Special.....	to	75.00	75.00	to	100.00	60.00	to	75.00	
" " Fancy and Extra.....	50.00	to	75.00	30.00	to	60.00	25.00	to	40.00
" " No. 1 and culls.....	10.00	to	35.00	20.00	to	35.00	5.00	to	15.00
Russell.....	15.00	to	35.00	10.00	to	35.00	8.00	to	30.00
Hadley.....	25.00	to	35.00	15.00	to	25.00	8.00	to	15.00
Euler, Mock.....	15.00	to	35.00	15.00	to	25.00	6.00	to	18.00
Arenberg, Hoosier Beauty.....	12.00	to	30.00	6.00	to	25.00	6.00	to	10.00
Ward, Hillingdon.....	12.00	to	30.00	6.00	to	30.00	6.00	to	8.00
Killarney, Key, Taft.....	10.00	to	20.00	5.00	to	20.00	6.00	to	15.00
Ophelia, Sunburst.....	12.00	to	35.00	6.00	to	25.00	6.00	to	15.00
Carnations									
Cattleyas.....	75.00	to	100.00	4.00	to	8.00	4.00	to	8.00
Lilies, Longiflorum.....	to	20.00	75.00	to	100.00	60.00	to	75.00	
Lilies, Speciosum.....	to	20.00	15.00	to	20.00	15.00	to	20.00	
Lily of the Valley.....	6.00	to	8.00	8.00	to	10.00	8.00	to	10.00
Snappedragon.....	15.00	to	20.00	8.00	to	12.00	8.00	to	12.00
Violets.....	to	1.50	20.00	to	3.00	1.00	to	2.00	
Stevia.....	to	1.50	2.00	to	3.00	1.00	to	2.00	
Calendula.....	4.00	to	5.00	4.00	to	6.00	4.00	to	6.00
Sweet Peas.....	25.00	to	50.00	2.00	to	4.00	1.50	to	3.00
Gardenias.....	to	1.00	25.00	to	50.00	20.00	to	25.00	
Adiantum.....	to	1.00	1.50	to	2.00	1.25	to	2.50	
Smilax.....	to	20.00	20.00	to	25.00	20.00	to	25.00	
Asparagus Plu. & Spren. (100 Bhs.)	25.00	to	75.00	35.00	to	75.00	35.00	to	50.00

Easter lilies are obtainable but high prices checks their sale. Paper whites are now quite a figure in the market, the stock being very good. Freesias are also coming in more freely and sell readily. The call for both single and double violets is particularly weak. Optimism prevails amongst the growers to a goodly degree and wholesalers are faring well, the business of the winter thus far having netted them very satisfactory returns. More help is available and growing conditions are now ideal. Indications point to a generous cut of roses, carnations, sweet peas and bulbous stock during the remainder of the month. Social activities are slowly resuming their former tenor, which auspicious fact points to an early return of the mid-winter demand for flowers.

Post holiday conditions prevail this week. A very moderate trade with enough roses to meet the demand, the supply of which is comparatively small but even at that the higher grades lag, the shorter grades cleaning up. Were it not for funeral work the market would suffer. Carnations are plentiful, if one is to judge by the wholesalers' windows. Certainly the average price will be lower this week. Bulbous stock increases slowly, paper whites and soleil d'or predominating; neither are meeting with a brisk demand at present prices. Violets are not going well and have dropped considerably in price. Cattleyas and gardenias move slowly. While it is not expected that high prices of the past month will be maintained it is not probable that there will be a marked decrease for a while. A small supply of acacia is coming in and is quoted at \$5 to \$7 per bunch. Longiflorums and callas are selling well, the shipments of which are not large.

Very little **PHILADELPHIA** change in the market except that carnations are a little more plentiful. Paper whites and freesias have made their appearance. There is also a nice supply of white lilac of excellent quality. There seems to be no white Romans around so far and they are usually to be seen about this time. Cattleya trianae is making an excellent showing and runs strong to the darker grades which are much sought after. Gardenias scarce and bringing fifty without trouble.

Stock appears to be **ROCHESTER** just as scarce as it was two or three weeks ago. The demand for cut flowers is brisk, and the supply is scarcely sufficient for the demand. Roses are fairly plentiful and sell at high figures. Carnations are particularly scarce but prices are somewhat lower than during the holidays. Easter and calla lilies are available and sell well. Mignonette is of good quality but the supply is small. Bulbous stock which includes paper white narcissi, freesias, jonquils and Roman hyacinths are welcomed and sell well. Violets sell somewhat easier and prices are a little lower. Potted plants are in limited and inadequate supply. Some good fancy ferns, leucothoe and asparagus sell well.

New year's trade was **ST. LOUIS** good. Retailers kept busy with corsage bouquets. Watch parties and receptions were numerous. The reduced prices on flowers especially for carnations helped some. California violets are of fine quality. Sweet peas are not over plentiful. Smilax is scarce, but there is a good supply of plumosa.

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ROSES AND CARNATIONS

	Last Part of Week ending Jan. 4 1919		First Part of Week beginning Jan. 6 1919	
American Beauty, Special	35.00	to 100.00	35.00	to 100.00
" " Fancy and Extra	20.00	to 33.00	20.00	to 35.00
" " No. 1 and culls	5.00	to 20.00	5.00	to 20.00
Russell	10.00	to 50.00	10.00	to 40.00
Hadley	10.00	to 50.00	10.00	to 50.00
Euler, Mock, Key	10.00	to 40.00	10.00	to 40.00
Arenberg, Hoosier Beauty	8.00	to 25.00	8.00	to 25.00
Ward, Hillingdon	8.00	to 20.00	8.00	to 20.00
Killarney, Taft	10.00	to 25.00	8.00	to 20.00
Ophelia, Sunburst	10.00	to 30.00	8.00	to 30.00
Carnations	8.00	to 12.00	6.00	to 12.00

WE WANT MORE SHIPPERS

We have a numerous clientele of New York City buyers and the demand exceeds our supply. This is especially true of Roses. We have every facility and abundant means and best returns are assured for stock consigned to us.

Address Your Shipments to

UNITED CUT FLOWER CO. Inc.

111 W. 28th St., NEW YORK

D. J. Pappas, Pres.

REED & KELLER

122 West 25th St., New York

Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Boston Floral Supply Co.

347-357 Cambridge St., Boston

Headquarters for
CYCAS, BASKETS, WIRE DESIGNS
and WAX FLOWERS
Send for price list if you have not received one.

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$2.25 50,000...\$9.75 Sample free.
For sale by dealers.

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting
especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
40 STATE STREET . . . BOSTON
Telephone Main 58

When writing Advertisers kindly mention Horticulture

Local and General News

CHICAGO.

H. M. Robinson of Boston was a Chicago visitor for several days.

Among the changes of the new year comes the Kyle & Foerster sign which now reads Joseph Foerster Co.

Fritz Bahr, well known florist of Highland Park has the sympathy of the trade in the loss of his mother whose death occurred last week.

A second dividend of 15.6 per cent. has been declared to the creditors of the W. H. Kidwell Co. This closes the matter, one previous dividend of 20 per cent. having been paid some time ago.

John Poehlmann, who has just been honorably discharged from the army with the rank of Lieutenant, is now one of the directors in Poehlmann Bros. Co., and will be in the Chicago store.

Mrs. Guy Reyburn is very ill with double pneumonia at the American Hospital. Mr. Reyburn has only recently recovered from an attack of influenza, of which seven members of his family were ill at one time.

The Alpha Floral Co., is making some changes in its store which will increase the efficiency with which it can handle its trade. The work rooms will now be in the basement and changes will also be made in the windows.

A. Miller, president of the American Bulb Co., is in New York. Their stock of gladioli is now arriving and the most sought for varieties this season include America, Frances King, Halley, Mrs. Pendleton, Niagara and Schwaben.

D. D. P. Roy, who has just returned from a trip through the northwest, reports business good and says that he never saw prices so high at Minneapolis, St. Paul and other cities in that vicinity on cut flowers as he saw there at the holidays.

The sympathy of the entire trade is extended to Mr. and Mrs. Geo. Reinberg in the loss of their son, Geo., Jr., who was the victim of pneumonia and passed away Dec. 30th, aged 25 years. He was never strong but so far as his health would permit was active in the business.

Many members of the trade learned with regret of the death of Nick Karthaus, who, though not a florist, yet was a member of the Chicago Florists' Club. It is in the grove that

J. J. COAN, INC. Wholesale Florist

116 West 28th Street, NEW YORK

Phones:
Farragut 5413 and 5891

Everything in Cut Flowers

J. K. ALLEN

"A LEADER IN THE WHOLESALE COMMISSION TRADE FOR OVER THIRTY YEARS"
ROSES! I WANT ROSES!

Have a demand for more than I can supply. Rose Growers Call or Write.

118 West 28th St.

NEW YORK

TELEPHONES
Farragut 167 and 3686

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Part of Week ending Jan. 4 1919		First Part of Week beginning Jan. 6 1919	
Cattleyas.....	25.00	to 75.00	25.00	to 75.00
Lilies, Longiflorum.....	20.00	to 25.00	20.00	to 25.00
Lilies, Speciosum.....	8.00	to 12.00	8.00	to 12.00
Lily of the Valley.....	6.00	to 12.00	6.00	to 12.00
Snopdragon.....	4.00	to 12.00	6.00	to 16.00
Violets.....	.50	to .75	.40	to .60
Stevia.....	.....	.....	.....	.....
Calendula.....	5.00	to 12.00	5.00	to 12.00
Sweet Peas.....	3.00	to 6.00	3.00	to 6.00
Gardenias.....	6.00	to 35.00	8.00	to 35.00
Adiantum.....	.....	to 1.00	.....	to 1.00
Smilax.....	15.00	to 20.00	15.00	to 20.00
Asparagus Plumosus, & Spren (100 bunches).....	15.00	to 25.00	25.00	to 25.00

bears his name that the summer meetings are often held.

The summary for December made by the U. S. Dept. of Agriculture shows under what conditions the florists produced their Christmas stock. It reports the month as warm, cloudy and wet, with a mean temperature exceeded only twice within the past 48 years and with only 30 per cent. of the possible amount of sunshine.

It is predicted by those who are in daily touch with the market conditions that there will be a heavy planting of carnations in the greenhouses for next year owing to the high prices these flowers have brought so far this season. This is further augmented by the fact that there are no coal difficulties now compared to those of last year.

The sad news of the death of Theodore Roosevelt recalls to the memory of D. D. P. Roy that it was the privilege of gardener James Duthie of Oyster Bay, to bring the ex-president into the Masonic order of that place. In one of his eastern trips Mr. Roy further recalls that he had the pleasure of visiting that lodge and meeting Mr. Roosevelt there.

Phil Schupp, manager for J. A. Budlong, points out the advantages of an association of growers which should delegate to a committee of its members the work of keeping closely in touch with the market and report prices daily. This, he thinks, would cause a greater uniformity of prices,

each wholesaler trying to do as well for his consignor as the rest, and the practice of selling quantities of stock to the ten cent stores and cheap department stores at a fraction of what they charge retail florists would be stopped. The plan seems practical and is now in operation by the vegetable growers. There is now a retailers' association here and also a wholesalers', why not one for the growers? Who will start it? Another branch of its work would be to keep a record of the stock being planted and warn against over production and under production of any kind.

H. BAYERSDORFER & CO.
Manufacturers and Importers
1129 Arch St., PHILADELPHIA, PA.
THE LEADING FLORISTS' SUPPLY
HOUSE OF AMERICA

QUALITY QUANTITY
CHARLES MILLANG
Wholesale Florist
55-57 West 26th St., NEW YORK
ATTENTION VARIETY

HENTZ & NASH, Inc.
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 755
Farragut **NEW YORK**

Cambridge

New York



WORLD'S OLDEST and LARGEST
Manufacturers of ALL STYLES and
SIZES of

FLOWER POTS

A. H. HEWS & CO., INC.
Cambridge, Mass.

**USE
WIZARD
BRAND**

CONCENTRATED PULVERIZED
MANURE

Pulverized or Shredded
Cattle Manure

Pulverized
Sheep Manure

The Florists' standard of uniform
high quality for over ten years.
Specify: **WIZARD BRAND** in
your Supply House order, or write us
direct for prices and freight rates.
THE PULVERIZED MANURE CO.
34 Union Stock Yard, Chicago

PHILADELPHIA

We had a pleasant visit this week from the distinguished seedsman Alexander Forbes of Newark, N. J. He is all right again after a siege in the hospital with a dislocated hip.

John Berger of Berger Bros. has been laid up with an attack of pleurisy since Dec. 19th. On the 6th inst. he was reported as being much improved.

Howard M. Earl of Washington, D. C. passed through our midst on the 6th inst on his way to Europe on a business trip. He expected to sail either on the Carmanina or the Lapland and will be gone until next April.

The latest addition to the delivery service of the S. S. Pennock Co. is a handsome new Willis-Knight car. Emblazoned on its sides is the slogan of the trade "Say it With Flowers" in large caps—so that all who run may read. This is a good form of publicity and cannot be too widely followed.

Many concerns seem to think that hitting the skyline in prices is a grave mistake—if not a crime. Those who think in that direction are retailers. They are most vigorous in their denunciations. And some of them even have gone so far as to hope that the growers had a lot of good stuff unsold on Christmas eve. On the other

CLASSIFIED DIRECTORY

Advertisements in this Department, Ten Cents a Line, Net

BULBS

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 post-paid. I. L. PILLSBURY, Galesburg, Ill.

DAISIES

Daisies, Bellis, Monstrosa, pink or white, also Longfellow and Snowball, fine strong plants, \$2.50 per 1000. \$6.75 per 3000, cash. BRILL CELERY GARDENS, Kalamazoo, Mich.

DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell. \$10.00 per clump. Cash with order. JOHN P. ROONEY, New Bedford, Mass.

New Peony Dahlia—John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

GLADIOLI

See display ad't gladiolus "Mrs. WATT." HOMER F. CHASE, Wilton, N. H.

GLASS.

6 by 8, 8 by 10, 10 by 12 or 10 by 14 at \$4.50 per box of 50 square feet. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

GREENHOUSE SASH

Standard Hot Bed Sash, Cypress, made with cross-bar, blind tenons, white leaded in joints, \$1.50 each. Orders for 25 or more, \$1.45 each. Glass 6 by 8, 8 by 10, 10 by 12 or 10 by 14 at \$4.50 per box of 50 square feet. Write for circular. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

ORCHIDS

HASSALL & CO., Orchid Growers and Raisers, Southgate, London, England. Cattleyas and Laelio-Cattleyas our specialty. One trial order solicited.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. LAGER & HURRELL, Summit, N. J.

SWEET PEAS

Just Arrived, crop 1918 winter flowering SWEET PEAS, New Zealand grown, the large flowering waved or Spencer type. We have been very fortunate to secure the entire crop of one of the best growers in New Zealand. New Zealand grown seed has always produced the earliest and best blooms, and seed started in August will produce flowers from Thanksgiving until March; requiring a low temperature, these make an ideal crop for the Florist this year. Scarlet, always a good seller. Finest Mixture, all the best colors. Pink and White, Blanche Ferry type. Yarrowa (true), bright rose pink with light wings. Write for further particulars. JULIUS ROEHRS CO., Rutherford, N. J.

VINES

Flowering and Foliage Vines, choice collection. Large Specimen, Pot and Tub grown for immediate effect; also Climbing Roses. J. H. TROY, Mount Hissarlik Nursery, New Rochelle, N. Y.

WIRE WORK

WILLIAM E. HEILSCHER'S WIRE WORKS, 264 Randolph St., Detroit, Mich.

FOR SALE

Must settle estate; many years successful operation. Good location, convenient to two railroads, within twenty-five minutes of Boston. Also dwelling, stable and outbuildings. Apply at once. MRS. E. M. RUMERY, Newtonville, Mass.

GREENHOUSE ESTABLISHMENT FOR SALE

Over 10,000 square feet of glass, modern construction, one acre of land; on three improved streets; trolley passes in front of place. Situated in a fine suburban city of 40,000 inhabitants. Handy to New York and Philadelphia markets. Great opportunity for local work, and everything produced could be sold right at home at retail prices. Fine opportunity for ambitious man. Only \$5,000 cash needed, balance easy terms. Apply "Chance," care of Horticulture.

hand the growers feel that it was a case of cold feet with the retailers. They have been so used to having it their own way for so many years that they didn't have the nerve to pay a good price and charge a good price. So between the two—you pay your money and you take your choice.

Sic transit gori mundi!

NEW YORK.

President-elect, Philip F. Kessler, of the New York Florists' Club has

issued invitations for a get-together dinner in regard to the policies of the club for the ensuing year, which will be held at "Billy the Oysterman's" on East 20th street, Saturday evening.

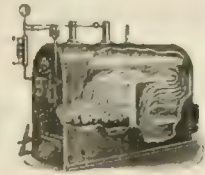
The firm of Goldstein & Futterman has dissolved. Mr. I. Goldstein will enter business for himself at 114 West 28th street. E. Futterman and C. Futterman will continue the wholesale flower business at 102 West 28th street under the name of Futterman Bros.

KROESCHELL BOILERS

IF YOU NEED A BOILER IN A HURRY,
Telephone or Telegraph At Our Expense.

Send for Catalog.

Kroeschell Bros. Co., 466 W. Erie St., Chicago



LEMON OIL CO'S STANDARD INSECTICIDE

Save your plants and trees. Just the thing for greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrips, Red Spider, Black and Green Fly, Mites, Ants, etc., without injury to plants and without odor. Used according to direction, our standard Insecticide will prevent ravages on your crops by insects.

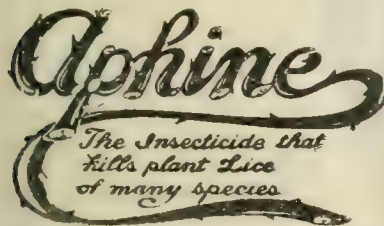
Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

1/2 Pint, 30c.; Pint, 50c.; Quart, 90c.;
1/2 Gallon, \$1.50; Gallon, \$2.50; 5 Gallon Can, \$10.90; 10 Gallon Can, \$20.00.
Directions on package.

LEMON OIL COMPANY

Dept. S. 420 W. Lexington St., Baltimore, Md.



The Recognized Standard Insecticide.
A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$2.50.

FUNGINE

For mildew, rust and other blights affecting flowers, fruits and vegetables.

Quart, \$1.00; Gallon, \$2.50.

VERMINE

For eel worms, angle worms and other worms working in the soil.

Quart, \$1.00; Gallon, \$3.00.

SENT BY DEALERS.

Aphine Manufacturing Co.
MADISON, N. J.

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Trademarks
and Copyrights

Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced personal, conscientious service. Write for terms. Address

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PATENT LAWYERS

Box 9, National Union Building
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MASTICA



For Greenhouse
Glazing
USE IT NOW

F. O. PIERCE CO.

12 W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

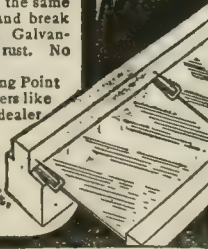
Dreer's Peerless Glazing Points

For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 40c. postpaid.
Samples free.
HENRY A. DREER,
724 Chestnut Street,
Philadelphia.

FULL
SIZE
NO 2



DREER'S

FLORIST SPECIALTIES
New Brand New Style
'RIVERTON' HOSE

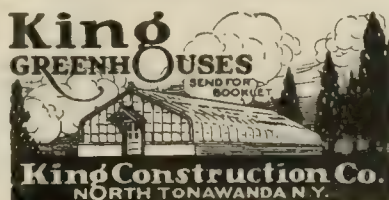
Furnished in lengths up to 500 ft. without seam or joint.

The HOSE for the FLORIST
1/4-inch, per ft., 19 c.
Reel of 500 ft. " 18 1/2 c.
2 Reels, 1000 ft. " 18 c.
1/2-inch, " 16 c.
Reels, 500 ft., " 15 1/2 c.
Couplings furnished without charge

HENRY A. DREER
724-726 Chestnut St.,
PHILADELPHIA, PA.



When writing to advertisers kindly
mention HORTICULTURE



NEW YORK, 10 E. 43rd Street.
BOSTON, 113 State Street.
BOSTON, 307 Irving Avenue.

GULF CYPRESS



Greenhouse Materials
Pecky Cypress Bench Lumber
GLASS

Gulf Cypress

HOTBED SASH

ALL KINDS AND SIZES

Unglazed, 85c. up
Glazed, \$2.05 up



Metropolitan Material Co.

1299-1323 Flushing Ave. Brooklyn, N. Y.

GLASS

FOR
GREENHOUSES

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

Johnson, Stewart and Varick Aves.,
Brooklyn, N. Y.

In the Coming

Reconstruction Period

The Florist will be properous and as a precautionary measure insure your glass against damage by hail. A letter to JOHN G. ESLER, Secretary, Saddle River, N. J., will bring the particulars.

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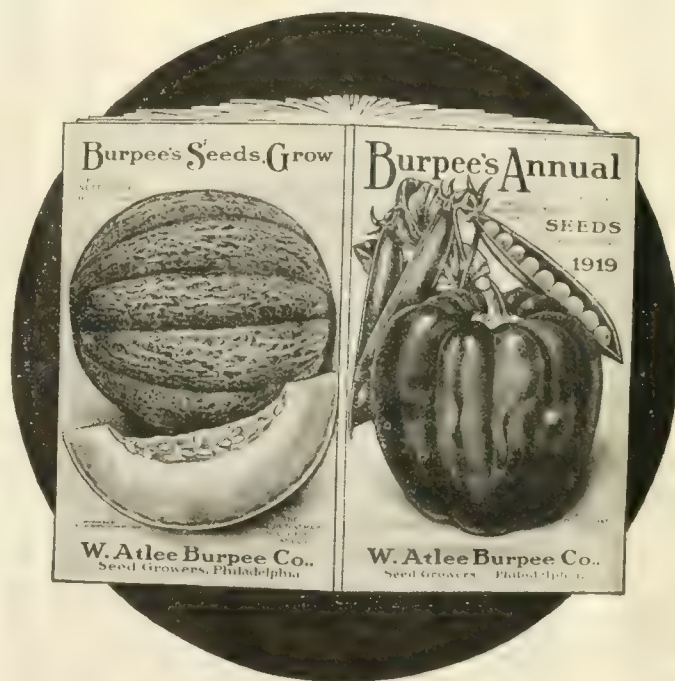
For Spraying
APHIS PUNK
For Fumigating

Ask Your Dealer For It.
NICOTINE MFG. CO.
ST. LOUIS

BURPEE'S SEEDS GROW

Forty years of careful investigation and extensive operation in Seed Growing has given us an experience as to the needs of the Commercial Grower that is equalled by few American Seedsmen.

Burpee Quality means that the Burpee Service is backed by the most extensive trial grounds in America. Every care is used in the selection of stock seeds and the product is surrounded by every safe guard known to science.



BURPEE'S ANNUAL

Burpee's Annual is ready for distribution. It contains complete descriptions of all varieties listed, also 24 pages of color. This supplemented by our Market Growers Wholesale Blue List should be on the desk of every grower. If you are entitled to wholesale prices write to us for these books. They will be mailed free upon request. If we can serve you in any capacity write us.

W. ATLEE BURPEE CO.

SEED GROWERS

PHILADELPHIA

HORTICULTURE

Vol. XXIX

JANUARY 18, 1919

No. 3

Grafted Roses

This winter we shall graft on manetti and propagate extensively all of the worth-while Greenhouse Roses for the commercial grower.

No doubt you are planning to get in line for the Big Business of next year and will want to replant at least a portion of your Rose section.

Send us your requirements and let us graft your roses to order.

Chrysanthemums

You know we specialize in Chrysanthemum cuttings and plants from 2¼-inch pots. Only those of proven commercial value are offered.

Get better acquainted with some of the newer Singles and Pompons. They are beauties—and money-makers, too. Ask us to write you about them.

A. N. PIERSON, Inc.
CROMWELL, CONN.



CATTLEYA TRIANAE

Quality above the average, really wonderfully choice stock, running mostly in the darker shades.

\$7.50 per doz.

\$50.00 per 100

Everything in Cut Flowers, Plants, Greens, Ribbons and Supplies.

S. S. PENNOCK COMPANY

The Wholesale Florists of Philadelphia

NEW YORK
117 W. 28th St.

PHILADELPHIA
1608-1620 Ludlow St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON, 1216 H St., N. W.

FERNS

Extra Strong, Heavy Plants, Well Finished, for Immediate Delivery

Nephrolepis elegantissima, *elegantissima Compacta*, and *Smithii*:

2¼-inch pots\$8.00 per 100

Nephrolepis elegantissima Compacta, *Muscosa*, and *Smithii*:

3½-inch pots\$.35 each

Nephrolepis elegantissima and *elegantissima Compacta*:

6-inch\$.75 each

8-inch 1.50 "

10-inch 3.00 "

12-inch 5.00 "

Nephrolepis Harrisii, 8-inch 1.50 "

Nephrolepis Muscosa and *Smithii*:

5-inch75 "

6-inch 1.00 "

Nephrolepis Dwarf Boston, 8-inch..... 1.00 "

F. R. PIERSON
TARRYTOWN, N. Y.

GERANIUMS

3-in. S. A. NUTT, early Summer propagated, topped back and branching. **\$4.00 per 100.**

Ivy Leaved and Scented Geraniums in a good assortment 2-in **\$2.75 per 100, \$25.00 per 1000, 3-in. \$4.00 per 100, \$35.00 per 1000.**

BEGONIAS VERNON, COLEUS, FUCHSIA, HARDY ENGLISH IVY, LANTANAS, 2-in. **\$2.50 per 100, \$22.50 per 1000; 3-in \$3.50 per 100, \$30.00 per 1000.**

VINCA VARIEGATED, 3-in **\$3.50 per 100**

DAHLIA ROOTS

WHOLEFIELD CLUMPS. Send for list.

Send for Catalogue

Cash with Order

R. Vincent, Jr., & Sons Co.
WHITE MARSH, MARYLAND



MICHELL'S NEW CROP FLOWER SEEDS

ASPARAGUS Plumosus Nanus (Northern Greenhouse Grown).
1,000 seeds, \$3.00 10,000 seeds, \$25.00
5,000 seeds, \$13.75 25,000 seeds, \$62.50

ASPARAGUS Hatcheri.
100 seeds, \$0.50 500 seeds, \$2.00
1,000 seeds, \$3.50

LOBELIA. Tr. pkt. Oz.
Crystal Palace Compacta, \$0.30 \$1.50
Crystal Palace Speciosa, .20 .75

PETUNIA.
Michell's Monstrosus, \$1.00
California Giants, .50
Grandiflora Fringed, .50
Dwarf Inimitable, .50 1.50

SALVIA. Tr. pkt. Oz.
Scarlet Glow (Michell's), \$0.50 \$3.00
Bonfire, .40 2.50
Zurich, .50 4.00
America, or Globe of Fire, .50 5.00
Splendens, .25 1.50

CENTAUREA 1000 seeds Oz.
Candidissima, \$0.40 \$2.00
Gymnocarpa, .15 .50

THUNBERGIA.
Mixed Colors, \$0.15 \$0.60

VERBENA.
Michell's Mammoth Fancy.
Tr. pkt. Oz.
Blue, \$0.30 \$1.25
Pink, .30 1.25
Scarlet, .30 1.25
Striped, .30 1.25
White, .30 1.25
Mixed, .30 1.00

VINCA.
Alba, \$0.15 \$0.60
Alba Pura, .15 .60
Rosea, .15 .60
Mixed, .15 .50

ALSO ALL OTHER SEASONABLE SEEDS, BULBS AND SUPPLIES
FOR THE FLORIST. SEND FOR WHOLESALE PRICE LIST.

HENRY F. MICHELL CO., - - 518 Market Street, Phila.

KELWAY & SON SPECIALIZE IN SEEDS

(personally selected strains)

WHOLESALE ONLY

Write for Special Prices, Spot or
Forward

Only Address, **LANGPORT, Eng.**

Special Gladiola Order

AMERICA, \$18.00
CHICAGO, 30.00
HALLEY, 20.00
FRANCES KING, 18.00
NIAGARA, 35.00
SCHWABEN, 35.00

AMERICAN BULB CO.

170 W. Wabash Ave. CHICAGO, ILL.

ROMAN J. IRWIN

108 West 28th Street - - NEW YORK

"Grow Pelargoniums For Easter"

Pelargoniums—Easter Greeting, Lucy
Becker, Wurtembergia.

Fine 2-inch pots, \$1.00 Doz.
\$8.00 per C.

"OTHER PLANTS ON APPLICATION"

Burpee's Seeds PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT

Cyclamen Seed—Giant Strain

Salmon King, White, Bright Pink, Bright
Red, Delicate Pink, \$8.00 per 1000.
Superb Red and Delicate Salmon (Prize
Medal Winners), \$17.50 per 1000.

S. S. SKIDELSKY & CO.

1004 Lincoln Bldg., PHILADELPHIA, PA.

SIM'S Selected Comet Tomato Seed

The Best for Growing Under Glass

\$5.00 per Ounce

**WILLIAM SIM
CLIFTONDALE, MASS.**

BURNETT BROS. Seeds, Bulbs, Plants Etc.

92 Chambers St., New York
Write for our Illustrated Catalog

GLADIOLI

New Trade List Ready

JOHN LEWIS CHILDS, Inc.
Flowerfield, L. I., N.Y.

W. E. MARSHALL & CO.
SEEDS, PLANTS AND BULBS
Horticultural Sundries
166 W. 23rd St., NEW YORK

FIRST, LAST, BEST
Hudson Valley Maid Tomato

Has no equal for earliness and produc-
tiveness. Try it—result will please you.
Trial Size, 25 Cents. 1000 Seeds, \$1.00.

J. P. ACKERMAN, Originator
ULSTER PARK, N. Y.

Lily of the Valley PIPS

JUST RECEIVED

\$30 per Case of 1000

\$15 per Case of 500

J. M. THORBURN & CO.

53 Barclay Street
Through to 54 Park Place
NEW YORK CITY

J. BOLGIANO & SON

Careful Seed Growers and Seed Distribu-
tors for One Hundred Years

WRITE FOR OUR 1918 SPECIAL CATALOGUE
To Market Gardeners and Florists

Pratt and Light Sts., BALTIMORE, MD.

STUMPP & WALTER CO. Seeds and Bulbs

30-32 Barclay Street
NEW YORK CITY

SEEDS, BULBS, PLANTS JOSEPH BRECK & SONS, CORP.

47-54 North Market Street
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LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Ackerman, J. P. 50	Childs, John 50	Grakelow, Chas. 65	McHutchison Co. 51	Reid, Edw. 66	Stumpp, G. E. M. 64
Allen, J. K. 69	Lewis 50	H. 65	Marshall, W. E. 50	Reuter, L. J. Co. 52	Stumpp & Walter Co. 50
American Bulb Co. 50	Clarke, D. Sons. 64	Gude Bros. Co. 64	& Co. 50	Robinson, Henry M. Co. 68	Thorburn, J. M. & Co. 50
Anderson, S. A. 65	Coan, J. J. 69	Hail Asso. 71	McKenzie, John. 65	Robinson, H. M. & Co. 66	Totty, Chas. H. 61
Aphine Mfg. Co. 71	Cooke, Geo. H. 64	Heistad, H. 61	Metropolitan Material Co. 71	Roehrs, J. Co. 52	Tracy, B. Hammond 51
	Conard & Jones. 51	Hart, Geo. B. 66	Michigan Cut Flower Ex. 66	Roland, Thomas. 65	Trepel, C. C. 64
Barrows, H. H. 51	Cottage Gardens Nurseries 52	Hess & Swoboda. 65	Millang, Chas. 69	Rosery, The. 64	
Bayersdorfer, H. Co. 66	Craig Co., Robt. 51	Hews & Co., A. H. 70	Muller-Sealey Co. 51	Schwake, Chas. Co. 51	United Cut Flower Co. 68
Bay State Nurseries 52	Danker 64	Hill Co., E. G. 66	Murray, Samuel. 64	Sekenger, Adam. 64	Vincent, R., Jr., & Sons Co. 49
Bloomington's. 64	Dards 64	Hill, D. Nursery Co. 52	Nicotine Mfg. Co. 71	Sheridan, W. F. 68	Wants, For Sale, etc. 69
Bobbink & Atkins 51	Dreer, H. A. 71-72	Irwin, R. J. 50	Niessen, Leo Co. 66	Siebrecht, Geo. C. 68	Warburton 65
Boddington Co., Inc., A. T. 62	Dunlop, John H. 65	Johnston Bros. 64	Palmer, W. J. & Son 65	Siggers & Siggers 71	Weber, F. C. 65
Bolgiano & Son. 50	Dwelle-Kaiser Co. 71	Kasting, W. F. Co. 66	Park Floral Co. 65	Sim, Wm. 50	Weiss, Herman. 68
Boston Floral Supply Co. 68	Dysart, R. 68	Kelway & Son. 50	Parshelsky Bros. 72	Skidelsky, S. S. & Co. 50	Wilson 64
Breck, J. & Sons. 50	Edwards Folding Box Co. 66	Kervan Co. 68	Penn the Florist. 64	Smith, Elmer D. & Co. 52	Wood Bros. 65
Breitmeyers, J. Sons 64	Esler, J. G. 71	King Construction Co. 72	Pennock, S. S. Co. 49	Smith, P. J. 68	Woodruff, S. D. & Sons. 50
Budlong, J. A. 66	Farquhar, R. & J. Co. 63	Knoble Bros. 65	Pierce Co., F. O. 72	Smith, W. & T. Nursery Co. 52	
Bunyard, A. T. 64	Fengar, E. W. 52	Kroeschell Bros. 72	Pierson, A. N. 49	Smith, The Florist 65	Young, A. L. 68
Burnett Bros. 50	Ford, M. C. 68	Kuebler, W. H. 68	Pierson, F. R. 49	Smith & Fetters Co. 65	Young, John. 68
Burpee, W. A. & Co. 50	Fottler, Fiske, Rawson Co. 62	Kottmiller 64	Pulverized Manure Co. 71	Smyth, Wm. J. 65	Young & Nugent. 64
	Froment, H. E. 68			Stearns Lumber Co., A. T. 71	Zech & Mann. 66
Carter's Tested Seeds, Inc. 63	Galvin, Thos. F. 65	Lager & Hurrell. 51	Randalls Flower Shop 65		
Chase, Homer F. 52	Gasser Co., J. M. 65	Lange, H. F. A. 65	Reed & Keller. 68		
	Graham & Son, A. 65	Lemon Oil Co. 71	Reidel & Meyer. 68		
		Liggit, C. U. 61			

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THE PLANT EMBARGO MENACE

The New Plant "Quarantine" (?) Regulation No. 37 is effective on and after June 1st, 1919, less than five months hence.

It provides, 1st. Under regulation No. 3 for only the following allowed Bulb Imports: Lily bulbs, Lily of the valley, narcissus, hyacinths, tulips, crocus, and these only when packed free from sand, soil or earth and again only "under permit where a particular purpose is specified, for that purpose and no other."

2nd. When dry packed (which is impracticable for lily bulbs to insure their safe arrival and keeping in cold storage), they can only be unpacked and entered in New York, Boston, Seattle and San Francisco, which means no through-in-bond shipments to interior cities, such as Chicago, Pittsburgh, Cleveland, etc., etc.

3rd. Each case must bear a label giving Name and Address of Exporter, Name and Address of Importer and Number of Permit. This means that you are forced to advertise to everyone throughout the districts through which these cases must pass, the name and address of your supplier, often a secret source that you have sought for years to obtain and now to be given publicity to all interested whether large or small alike.

4th. The shipments at port of arrival (which must likewise be port of entry and payment of duty), provides for inspection and fumigation under certain eventualities. This means that when your goods arrive at the point of debarkation from the vessel, you must give a bond pending the time the inspector will examine such case as he likes, meantime the goods remain on the wharf at perils of weather, incurring expenses for demurrage, etc., etc. Should the inspector pass the case, then each and every State Inspector of Nurseries in his State through which any package or packages are destined, must be advised of the shipment and likewise subjected to further delay to handling of goods at final point of destination. Should the Inspector at original port of arrival find it necessary to fumigate the case, it would practically mean destruction of the goods or making them unfit for the growers' use.

5th. All future imports of amaryllis, anemone, begonias, eremuri, freezias, galanthus, gladiolus, gloxineas, pæonies, ranunculus, snowdrops, scillas and hundreds of other useful

varieties of bulbs are prohibited. This means that although the intent of the act was to only protect against all pests and diseases that might be detrimental to the health and welfare of the Horticultural interests of the United States, that in reality it means restriction against certain classes of bulbs, which are in no way more apt to carry any disease or pests than other varieties of bulbs, etc., that are allowed to come in under the act. For instance, if dry packed narcissus, tulips, and hyacinths are recognized as being non-carriers of pests, why should anemone, begonias, gladiolus, iris or scillas, etc., which can be similarly dry packed, be prohibited?

Again, where all future imports of araucarias, baytrees, boxwood, evergreens, fruit trees, and vines, nurserystock, rose bushes, rhododendrons, etc., etc., are forbidden.

Seedling Wild Roses and Fruit Tree Stocks May Be Imported

and these can carry disease and injurious insects as well as the thousands of varieties of trees, plants and vines that are excluded. We can no longer import wonderful orchids from their native habitats; the pæony creations of the great French Hybridizers such as Dessert and LeMoine, the latter's splendid novelties in lilacs, philadelphus, deutzias, etc., must keep away from these shores. Blackmore and Langdon's fine begonias, Wallace's world renowned iris, the fine collections of British montbretias, Dickson's fine roses and the wonderful things of other British producers, will not be tolerated here any longer; we must call back our own Wilson, he who collected so many valuable plants, roots and bulbs which draw thousands upon thousands to the Arnold Arboretum in Boston, call him back from his present exploring tour of the interior of China and Japan with the statement that America does not want any of the plants, etc., that he is taking such great pains to collect.

Hereafter if we wish to see a good Flower Show we shall have to make a trip to Europe; no longer shall American Horticulturists be able to vie with each other at horticultural events with rarest of novelties imported from all parts of the world while the progressive American flower grower will have to content himself to struggle through the Christmas, Easter and other important holidays

without azaleas, rhododendrons, palms and other necessary material which form the products of a large percentage of that wonderful nation to which the world today owes so much, that small but intrepid Belgium.

While we are feeding and clothing these brave people, who suffered more than any other, we are forbidden to import by our government through this recent act their horticultural products for fear a bug might be hidden in them, a bug, that escaped the rigid examination the Belgium entomologists give all plants and might even escape the careful examination which our State and Federal Departments give them upon their arrival here.

Yet, "We have permission to import millions of lily of the valley which practically all come from Germany" before the war, so that, while thereby favoring the enemy country and people, we mitigate against the interests of the country we are trying to help. A few misguided people might say: We cannot produce some of the things here and others we can which is the reason that we allow certain things to come in and exclude others.

This does not at all enter the question of the protection of home industries and is not within the jurisdiction of the Federal Horticultural Board, who are the advisors to the Secretary of Agriculture, Mr. D. F. Houston, but is a Tariff question purely and simply.

We should not permit ourselves to become confused as to this and should be able to discern and understand the purpose of this entire procedure clearly and distinctly to act accordingly. Importers, nurserymen, seedsmen, dealers, florists and private bulb and plant users should take immediate and continued action to protest to the proper authorities in Washington against the present drastic rules and regulations prescribed by the act, which are discriminatory, unworkable, obnoxious, and, I must say it, ridiculous.

How Shall This Be Done?

1st. Those concerns or individuals and foreign shippers and suppliers to the United States of bulbs or plants, either directly or through the medium of their authorized agents here, should at once make protest through the foreign ambassadors at Washington who represent their governments to bring the matter to the attention of

the Secretary of Agriculture, through diplomatic channels or the medium of the State Department, such firms naturally not having any status before our Government's Departments.

2nd. Every importer resident in the United States, likewise every dealer, seedsman, florist or user, should make protest both direct to the Secretary of Agriculture at Washington, drawing his attention to the hardships and unworkable application under the regulations, and likewise all those interested should further take the subject up through the medium of their United States representatives and Senators in Congress, so that such representatives may both inform and collectively bring the matter to the attention of the Secretary of Agriculture.

What Should Be Done.

1st. All bulbs are harvested without the original soil in which they are grown, being attached or adhered to the roots, but as soil is known to be the only safe material as applied to imports of lily bulbs, particularly those from Japan, where the long voyage is likely to extract the moisture and growing quality if packed in vegetable packing material, the regulation should be so modified so as to permit of the continued use of dry soil as heretofore, which has so far been unknown to be infected with pests or plant diseases. If absolutely necessary this soil could be treated by some process of sterilization that would in any event destroy any possibility of any insects or pests remaining alive or deleterious after such sterilization.

2nd. When a certificate of inspection issued by the authorized plant inspector at point of origin is furnished attached to the shipping document showing that the soil packing has been so treated, the Federal Horticultural Board's representatives at ports of entry should accept such certificates at their face value and allow the shipments they cover to pass to further destination without unnecessary delay.

3rd. Labels showing the name and address of the importer here and the number of the permit issued by the Federal Horticultural Board should be sufficient to enable the authorities to trace the importation without the obligation of labeling and publishing the source of supply other than the country of origin.

4th. If importers in New York, Boston, Seattle and San Francisco are permitted to enter goods at such ports, why are the merchants, buyers and users of bulbs in interior cities

such as Cleveland, Chicago, Cincinnati, Pittsburgh, Omaha, Detroit, etc., to be restricted against? Why should these shipments, provided they are accompanied by inspectors' certificate of the plant inspector and country of origin, not be permitted to pass in bond to any interior city and treated in like manner as such imports that will arrive in New York, Boston, and Seattle and San Francisco?

5th. If hyacinths, narcissus, tulips and crocus are permitted in, then all other similarly dry bulbs which never were known to carry infectious or injurious pests should be allowed in as heretofore.

6th. Where rose stocks and fruit tree stocks are allowed to enter, other plants of surely as innocent a nature should be permitted subject to the known careful examination in the country of origin and at port of arrival as heretofore.

Surely the very particular inspection plants are subjected to in the foreign nurseries before their departure to this country and the rigid examination such plants receive here by a well organized and large force of Government inspectors should be sufficient to prevent the introduction of any and all injurious insect pests.

When recently the Spanish Influenza pest was brought over here did we pass an act making it unlawful for human beings to ever come over here again? No; instead we went about combating the pest and we seem to have succeeded. Perhaps the gentlemen of the Federal Horticultural Board may find means to combat the occasional bug that might find its way over here and the millions that are here already without going to the radical departure of killing the dog to destroy the fleas, which would seriously affect the business of every florist, importer, nurseryman and plantsman in the United States.

The difficulty seems to be to get any concerted and broad action on the part of the different interests affected to actually do something to draw to the attention of the Secretary of Agriculture in Washington direct the opinion of the interests involved in the commercial way of the operation of the act. A committee should be appointed by different florist clubs to take up the matter direct with the Secretary of Agriculture, that he may be directly advised of the objections to the operation of the proposed regulations as seriously affecting the horticultural interests of the United States.

The leading private gardeners can be of great service in this great cause by bringing the matter to the attention of their employers with requests

to use their influence in the right place. Horticultural societies throughout the land should appoint committees who would prepare briefs clearly setting forth the facts which the gardener members should then bring to the attention of their employers providing them with copies of such briefs.

Garden clubs likewise should prepare briefs, circulate them amongst their members with requests to use their influence with members of Congress and the Senate, and at their meetings and in their reports this un-American act should be criticised until either the teeth are gradually taken out of the act by amendments or the same dies its deserved death through Congressional action or investigation.

It becomes no man to muse despair
But in the teeth of clenched antagonism

To follow up the worthiest until he die.

JOHN SCHEEPERS,
2-4 Stone St., New York.

NEW BEDFORD HORTICULTURAL SOCIETY.

The 17th annual meeting of the New Bedford Horticultural Society was held Monday evening, Jan. 8, in the Free Public Library, and the following officers were re-elected: President, Leonard J. Hathaway, Jr.; vice-president, Joseph A. Nolet; financial secretary, Walter K. Smith; secretary, Jeremiah M. Taber; treasurer, Walter A. Luce. Executive Committee, Frank G. Tripp, chairman; James Garthly, Andrew J. Fish, Charles W. Young, Louis W. Macy, Joseph S. Figueiredo, J. Arnold Wright, Thomas H. Hughes, James Armstrong. Entertainment Committee, Frank C. Barrows, chairman; George H. Reynolds, Nathaniel P. Sowle.

The society has held three free flower shows during the past year. The treasurer's report shows an increase of \$30.84 for the year in the surplus which is now \$77.52.

It was voted to continue free flower shows. The membership of the society is now 203. Four members died during the year. Joseph A. Nolet won the David F. Roy silver cup for the best displays at the 1918 shows, the award being decided on points. Mr. Nolet was credited with 62 points.

The annual meeting of the Rhode Island Horticultural Society was held in the lecture room, public library, Providence, Wednesday, January 15, 1919. Prof. John G. Jack of Arnold Arboretum, Boston, gave an illustrated lecture on "American Trees and Shrubs for New England Planting."

CLUBS AND SOCIETIES

CHICAGO FLORISTS' CLUB.

The regular January meeting of the Chicago Florists' Club was turned over to the sports and pastimes committee of which T. Waters is chairman, and the result was a Victory Banquet at the Hotel Randolph, followed by dancing. About 100 members and guests were present, of whom nearly one half were of the fair sex. Some very flattering remarks were heard about the young ladies in the trade who attended the party and showed as much skill in dancing as they display in business life. A short business session preceded the banquet and Allie Zech was installed president. Walter Amling, vice-president elect, was absent on account of the death of his father and will be installed later. A. T. Pyfer, secretary, and Otto Amling, treasurer, were then installed and remarks were brief in view of the dinner waiting, which all pronounced one of par excellence.

Phil Foley, past president of the club and president of the Foley Greenhouse Mfg. Assn., was toastmaster, and those who know him best know that nothing more needs to be said. As ever the right word was ready every time, and this part of the evening was immensely enjoyed by all.

C. C. Pollworth and Mrs. Pollworth from Milwaukee were guests, as were also H. M. Robinson of Boston, Ore Gnat and F. Henock of La Porte, Ind., and A. F. J. Baur of Baur & Steinkamp, Indianapolis.

Dancing followed and all the worries common to the lot of the florist were forgotten in its enjoyment.

A letter from J. F. Ammann, president of the S. A. F., was read expressing regret at his inability to attend.

The next meeting will be Feb. 6 and will be Novelty Night. Anyone having any novelty to exhibit is invited to write to the secretary.

The committee awarded the club's certificate of merit to the Ruth Baur Carnation, which was exhibited at the banquet.

STAMFORD HORTICULTURAL SOCIETY

The regular monthly meeting of the Stamford Horticultural Society was held Friday evening, January 3rd. Henry Wild was installed as president, Owen A. Hunwick, secretary, both for the third time; J. Foster, vice-president and G. C. Boon, record-

ing secretary. A. Peterson was appointed treasurer to take the place of the late Edward Davey, who was buried the same afternoon. Mr. Wild spoke of the career of Mr. Davey. The loss is great to the society not only as an officer, but as member and friend. All the members arose in respect to his memory. A committee for the entertainment of members with their families was elected. The Red Cross Chapter of Stamford expressed their thanks for the \$150.60 sent to them by the society, this being the net proceeds of the fall show. The following exhibits were awarded prizes by the judges:

Strelitzia Regina, seeding carnation, white, honorable mention; Enchantress Supreme, cultural certificate, gard. M. J. Quirk; carnation Rock-acre, sport, certificate of merit; seedling chrysanthemum, vote of thanks, gard. Alexander Geddes.

The lecture of the evening was by G. C. Boon. His subject was "Restoring an Old Orchard." He explained how along a scientific way an old orchard was restored. The orchard had been allowed to grow to brush and did not produce a sound apple when he got hold of it. The owner wanted results and two years after he got over 1000 barrels of sound apples that were as good or better than many coming from Oregon. He told the meeting how he went to work pruning, plowing and seeding a green crop which was burned under in the spring followed by fertilizer; also how important it is to spray thoroughly and at the right time, and advised the keeping of more sheep in the state of Connecticut. After the lecture several questions were asked concerning apple culture.

G. C. BOON.

The meeting of St. Louis Growers' Association was held on January 8. A lively discussion on prices and stock was held and growers seemed well pleased with returns received since Christmas. Jules Bourdet led a discussion on the formation of the new florists' board of trade and most of the members agreed that such a board would be beneficial as the three branches of the trade, grower, wholesaler and retailer, could meet and discuss market conditions and possibly get a maximum and minimum of cut flower prices.

SOUTHAMPTON HORTICULTURAL SOCIETY.

The annual meeting of the Southampton Horticultural Society should have been held on Jan. 2nd, but being a very stormy evening and very few present, a special meeting was called for Jan. 10th for the purpose of electing officers and transacting other business incident to the annual meeting. The following officers were elected for the ensuing year: President, D. T. Wells; vice-president, Stanley R. Chandler; Secretary, H. H. Wells; financial secretary, William McLeod; treasurer, Frederick Marshall; corresponding secretary, George Campbell; executive committee, James T. Dickson, Charles Frankenboch, Hugh Davidson, George Anderson, Essog Carr, Frederick Marshall, Stanley R. Chandler, George Anderson. It was voted to hold the annual flower and vegetable show the coming summer. Also to continue the monthly exhibits. Exhibitors to receive first, second and third prizes at the end of the year as per points gained. It was also decided to dispense with the annual banquet as demands for benevolent purposes were considered paramount. After some interesting discussions on various subjects the meeting adjourned.

ST. LOUIS FLORIST CLUB

The St. Louis club held its meeting Thursday, January 9, at the W. C. Smith Wholesale Floral Co., thirty-five members being present. Reports of the Publicity Committee were called for but owing to the absence of Secretary J. J. Beneke were unable to report.

A discussion on cost of production was led by Fred Ammann, president S. A. F. It was decided that the publicity committee should handle this important question and get grower, wholesaler and retailer together for further cooperation. It was resolved that condolences should be sent to the families of Alex Lurie and Fred Albers in their recent bereavements.

Fred Ammann made an exhibit of newspaper advertising and R. J. Mohr advocated advertising by the Florists' Publicity Committee. C. W. Wors, Jr., spoke of his camp life at Camp Kearney and Alex Lurie of the Missouri Botanical Garden gave an illustrated talk on the curious varieties of plants and weeds common to the study of horticulture.

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CONTENTS

	Page
THE PLANT EMBARGO MENACE— <i>John Scheepers</i>	53-54
CLUBS AND SOCIETIES:	
New Bedford Horticultural Society.....	54
Chicago Florists' Club—Stamford Horticultural So- ciety—Southampton Horticultural Society—St. Louis Florist Club	55
American Carnation Society—Gardeners' Conference at Pittsburgh	58
Northampton Florists' and Gardeners' Club—Florists' Hail Association of America.....	60
SOCIETY OF AMERICAN FLORISTS—National Pub- licity Campaign—Committee Meetings—Department of Plant Registration	58
NEW YORK FLORISTS' CLUB.....	59
OBITUARY—Mrs. Thomas Page—Mrs. Emily Blewett Prickitt—George Conklin Saltford—Lieut. William Aherne	61
OF INTEREST TO RETAIL FLORISTS:	
A Store Beautiful.....	64
FLOWER MARKET REPORTS:	
Boston, Chicago, Cincinnati, Cleveland, Rochester, St. Louis	67
LOCAL AND GENERAL NEWS:	
Philadelphia—Lieut. John H. Earl, portrait—Roch- ester—Chicago—Washington—Boston	69-70
MISCELLANEOUS:	
News Notes	60-65
Dendrobium Lionii—Illustrated	61
Controlling Cucumber Disease by Seed Treatment and Crop Rotation	62
Catalogues Received	63
Patents Granted	63
What is the Best Way to Store Manure?.....	63
Visitors' Register	65

quite unexpected so soon has taken place. Flowers and social functions are the order of the day with the result that flowers are in demand at high prices especially geraniums and violets.

Building materials coming down in price

The present week marks several substantial reductions in the cost of construction materials. One of the largest corporations has just announced a reduction of twenty-five per cent in the cost of steam and hot water boilers and other heating apparatus. Lower prices for structural steel are also indicated. Other lines must inevitably follow this action, for industry will be at a standstill until they do, and until they do, they may expect to be practically without new business. Unskilled labor is now plentiful at rates about the same as before the war. Mills and shops throughout the country are running on reduced time and the managers in several instances have intimated that there is little prospect of improvement during the next six months. Competition for skilled labor among employers is no longer in evidence and it now appears that the much talked of period of readjustment is no longer to come, it is here now. The sooner we get to a new solid basis which shall become our future normal conditions the better it will be for all of us, for real prosperity cannot come while war-time inflation lingers. Then and then only will the florist be justified in making permanent improvements or additions to his establishment. Had he done so under recent high prices it would have been almost impossible to earn any return upon the outlay.

The trade aroused at last

It has taken the horticultural trade a long time to come to a full realization of the evil which threatens horticulture and horticultural art and industry by the new embargo placed on all plants having earth at their roots, which becomes operative June 1st. Eight months ago HORTICULTURE sounded its warning to the trade, urging attendance at the first hearing at Washington on May 28th. Unfortunately very few representatives of the trade and some of the larger houses were not represented. From then until now HORTICULTURE more than any other trade medium has continued to sound the warning, and now although it is the eleventh hour and the full consequences of inaction loom up before us, and although the required efforts will necessarily be much greater, if any abatement of the embargo is to be secured we still hope that every possible effort will be made to save us from this unwarranted restriction by a department of our government whose mission it should be to foster rather than to destroy our industry. The Federal Horticultural Board has evidently not heeded the suggestion made at the hearings that inspectors be sent abroad to examine, where growing, material intended for shipment to this country. This plan would not be difficult in the cases of England, Holland and Belgium from which three countries most of the restricted stock comes. Later the inspection might be extended to other countries. The cost would be small compared to the value of such inspection to the horticultural interests of this country.

It is refreshing to read of the brisk demand for flowers in London. People there had become thoroughly tired of the depressing conditions incident to the war and reaction

Flowers in demand
in London

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

NATIONAL PUBLICITY CAMPAIGN.

Our Promotion Bureau is daily in receipt of letters from subscribers to the Campaign Fund highly commending the work of the committees.

Wm. L. Rock, of the William L. Rock Flower Co., Kansas City, Mo., a letter from whom was recently published in these notes, writes, with a cheque for \$200 as his subscription for 1919: "I wish to state no bill or obligation has come in to our establishment that has given me more pleasure to meet than this one. I sincerely hope the florists throughout the land will be able to see the benefits that they will derive from this campaign. The awakening will perhaps be somewhat slow; the realization will be sure to follow. Your committees are perfectly right in requesting that remittance of subscriptions be made promptly, so that they themselves can see just exactly where they stand."

A Washburn & Sons, Bloomington, Ill., writes: "We enclose cheque for \$25 to cover our pledge for 1919. We are pleased with the way the work is carried on, and wish to express our appreciation to the men looking after it. Our sales the past year showed an increase of 10½ per cent. over those of 1917. Possibly some of it is due to the national campaign."

Contributors to the fund for 1919 should clearly understand that their contributions are to be used toward the publicity planned for this year. The 1918 campaign was conducted and financed wholly through the fund provided last year, consequently there is no deficit to be made up from this year's fund.

Campaign Rally in Philadelphia.

There was an enthusiastic rally of the florists of Philadelphia and neighboring cities as part of the program of the Florists' Club of Philadelphia for its meeting on January 7th. Over 250 members of the trade were in attendance, and interest ran high. Among the speakers on "Publicity for Flowers" were Henry Penn, Boston, chairman of the Publicity Committee; Major P. F. O'Keefe, Boston; Wallace R. Pierson, Cromwell, Conn.; Wm. F. Gude, Washington, D. C.; Secretary

John Young, New York; Robert Craig, Philadelphia; and W. F. Therkildson, Philadelphia. Charles Grakelow presided at the request of the club's president, Alban A. Harvey, and in a most able manner introduced the speakers.

Henry Penn told of the wonderful results obtained from the 1918 campaign. Particularly surprising were they under the distressing business conditions experienced by all trades. With the work kept going, much greater returns now were to be expected. He emphasized the importance of an extended use of the slogan, "Say it with Flowers," and a general linking up with the campaign publicity through the use of the service offered by the Promotion Bureau. He advocated an extension of interest in the campaign so that instead of \$50,000, the fund annually should reach \$150,000, and bring a corresponding increase in benefit. Evidence of wide benefit from the campaign Mr. Penn fully demonstrated.

Major O'Keefe outlined the campaign at considerable length. Some of the points he made were as follows: Advertising interests, and brings necessary additional business. The cost of a single page in the Saturday Evening Post, \$5,000 looked like a lot of money, but people who were anything but crazy were keeping on using such space year in and year out. To send a postcard to each person reached by a page in that publication would cost \$23,000, and then not tell a story so well. There was spent last year on magazines of nation-wide circulation, about \$35,000 of the Florists' Publicity Fund. It was necessary to interest people in flowers, and make them like them. Advertising in the face of the unfavorable conditions of last year was bold, but turned out to be wonderfully successful; even had it kept business only up to normal, it would have been a great achievement. It was advisable each year to keep on building prestige and adding to what had gone before. One cannot force, but may advise a customer. The January and February features of the campaign would be carried in 33 magazines, at a cost of about one-twentieth of a cent per number of

each, the slogan "Say it with Flowers," predominating in all matter. Philadelphia's share alone of the circulation was estimated to be 350,000, and retailers should make the most of it. There were 3000 birthdays every week in the population of that city, a florists' opportunity in every one of them.

Wallace R. Pierson's remarks were chiefly directed to growers, whose interest in the campaign should be paramount, as they were the producers of the flowers to be exploited.

Wm. F. Gude declared that the publicity campaign was a great factor in stimulating the florist business. Everyone was benefited so everyone should contribute, and not stand aside and "let George do it." All should tie up at once to the campaign, and make personal endeavor as well.

Secretary Young spoke at considerable length, dwelling chiefly upon the advantages to be derived from a liberal use made of the various aids provided by the Promotion Bureau signs, electrotypes featuring the magazine advertisements, lantern slides, stickers and so forth, all provided at cost, and found to be great business bringers. The live members of the trade throughout the country were actively interested in the campaign, contributing their time and money to make it a success. The results last year were excellent and would be better this year, as the movement was growing rapidly. As showing the interest already in evidence, he mentioned that the first two days' mail after the bills to subscribers had gone out contained \$3,000 and there was a pledged fund of \$27,000 to start with. Those who contributed and tied up with the work of the campaign received most benefit.

Robert Craig, who was given an ovation, made one of his characteristic addresses. Speaking of flowers, he said that love of beauty existed in every mind; some admired pictures, or jewels, others horses or dogs, but everybody loved flowers, therefore, the thought of flowers should be constantly before the public.

W. F. Therkildson, to whom credit was given as the real originator of

the campaign, expressed his great belief in slogans, and remarked that he considered the slogan, "Say it with Flowers" really wonderful in conception. The campaign, he said, should have everybody in the trade back of it.

Quite a large sum was subscribed at the meeting.

Florists from other cities present were: Wm. F. Keys, Jr., J. Stevenson, W. F. Ekas, W. E. McKissick, M. Lohr, Wm. Lehr, T. H. Cook, R. L. Graham, Jr., and Isaac H. Moss, all of Baltimore, Md. T. H. Thompson, Harry Palmer, J. E. Barnard, all of Kennett Square, Pa.; John Horn, Allentown, Pa.; Wm. Geiger and R. Mayhew, North Wales, Pa.; H. Darlington and J. M. Andre, of Doylestown, Pa.; A. M. Herr, H. K. Rohrer and B. F. Barr, of Lancaster, Pa.; Adolph Gude, Jr., and G. W. Hess of Washington, D. C.; D. B. Edwards, Atlantic City, N. J.; M. J. Brinton, Christiana, Pa.; W. H. Vance, Wilmington, Del.; A. L. Miller, Jamaica, N. Y.; W. H. Fox, Parkers Ford, Pa.; Robert Pyle, West Grove, Pa., and H. C. Huesman, Reading, Pa.

It is hoped that those florists who have not yet considered the advisability of subscribing to the campaign fund will realize the immense importance of so doing, and send in a subscription without delay.

The following contributions for 1919 are reported:

George Craig, Philadelphia, \$10; Boston Cut Flower Exchange, Boston, \$25; W. F. Therkildson, Philadelphia, \$25; E. W. Gaehring, Philadelphia, \$10; Eugene Bernheimer, Philadelphia, \$10; C. D. Darlington, Doylestown, \$15; Chas. F. Krueger Co., Reading Terminal, Philadelphia, \$50; H. S. Betz, Philadelphia, \$100; Aschmann Bros., Philadelphia, \$35; Joseph Josephs, Philadelphia, \$10; G. A. Thiele, Philadelphia, \$10; Eva Frances Fletcher, Philadelphia, \$5; Louis Niemann, Philadelphia, \$5; M. J. Brinton, Christiana, \$10; J. Henry Bartram, Lansdowne, \$30; F. H. Meinhardt, St. Louis, \$15; Dobbs & Son, Auburn, \$5; Minge Floral Co., Mobile, \$5; Frank C. Siebert, Wheeling, \$5.

Additional Subscription—John N. Champion, New Haven, \$5; Chas. H. Grakelow, Philadelphia, \$50; S. S. Pennock Co., Philadelphia, \$100; A. Harvey & Sons, Brandywine Summit, \$40; Victor I. Ride-nour, Philadelphia, \$40; R. L. Graham, Baltimore, \$15; L. C. Stroh & Sons, Bavaria, \$5.

Second Subscription Harry K. Rohrer, Lancaster \$25.
Total, \$660.00. Previously reported, \$26,245.50. Grand total, \$26,905.50.

COMMITTEE MEETINGS.

President Ammann of the Society of American Florists has issued a call for a meeting of the executive board of the society to be held in Detroit on Friday, January 31st, and another meeting to be held in Cleveland on February first, following the meeting of the American Carnation Society. Henry Penn, chairman of the Publicity Committee and George Asmus, chairman of the finance committee, have

also issued calls for meetings of their respective committees to be held in Cleveland on January 29th. The name of the hotel in which the meetings are to be held will be announced later.

JOHN YOUNG, Secy.

Department of Plant Registration.

Public notice is hereby given that The Conard & Jones Company, West Grove, Pennsylvania, submit for registration the new plants mentioned below:

Canna Nokomis: A hybrid of the famous Firebird, without any of the bad habits of the parent plant, height 5 feet. The foliage is a combination of emerald-green and bronze, beautifully veined, making a lovely setting for the large, vivid crimson flowers. The flowers are most attractive, having a rich, silky sheen on the petals, and the color is darker than that of any other bronze-foliaged canna with bloom near this size.

Canna The President, height 4 feet. In color it is a rich, glowing scarlet, and the immense, firm, rounded flowers, 7 inches across when open, are produced on strong, erect stalks well above the large, rich green foliage. The President is superior to any other red variety in the quantity and also quality of bloom, and the firm flowers are able to resist drought and heat to a remarkable degree.

Any person objecting to this registration, or to the use of the proposed name is requested to communicate with the Secretary at once. Failing to receive objection to the registration, the same will be made three weeks from this date.

Arno H. Nehrling, Crawfordsville, Indiana, has been appointed State Vice-President for Indiana, North, vice, W. J. Vesey, Jr., previously appointed, but who is still in the service of the U. S. Army.

President J. F. Ammann has reappointed the Committee on Memorial Resolutions, as follows: Michael Barker, Chicago, Ill., chairman; John G. Esler, Saddle River, N. J., and J. A. Peterson, Cincinnati, Ohio.

JOHN YOUNG, Secy.

1170 Broadway, New York.

AMERICAN CARNATION SOCIETY.

By request of the Cleveland Florists' Club, the following classes are added to the premium schedule for the American Carnation Society exhibition at Cleveland on January 29-30. Entries for these classes may be made any time previous to the time set for

staging, which is one o'clock of January 29th.

Fifty blooms any variety white, light pink being not darker than Windsor, dark pink being darker than Windsor, red and any other color, prizes of \$8.00, \$4.00 and \$3.00 are offered for each variety.

Please bear in mind that entries for all classes except the above should be in the hands of the secretary not later than January 19th. The 19th falling on Sunday, all entries in Monday's mail will be accepted as having been made within the time limit. After Monday, two dollars will be charged against each class in which entry is made.

Entries are especially desired from growers in the middle west. For several years past, the growers in this section have failed to hold up their end, leaving the making of the exhibition largely to the growers from the far east. Cleveland is centrally located and easily reached from all directions, therefore there is no reason why we should not have entries from all sections. COME, and bring an exhibit with you.

A. F. J. BAUB, Secy.

GARDENERS' CONFERENCE AT PITTSBURGH.

A gardeners' conference will be held under the auspices of the Pittsburgh district members of the National Association of Gardeners at the Hotel Chatham, Pittsburgh, on Thursday evening, January 30th.

Following a reception from 6 P. M. to 6.30 P. M., David Fraser, a director of the national association, will introduce the speakers of the evening who will include Robert Weeks of Cleveland, president of the National Association of Gardeners; M. C. Ebel of Madison, N. J., secretary; William Falconer and Neil McCallum of Pittsburgh. A general discussion of the problems confronting the gardener and his profession will follow the speakers. Gardeners and all interested in the profession of gardening will be welcomed.

A supper will be served at the conclusion of the business session. David Fraser of Pittsburgh is chairman and John Barnet of Sewickley, Pa., secretary of the conference committee.

An executive meeting of the trustees and board of directors of the National Association of Gardeners has been called by President Weeks to meet at the Hotel Chatham, Pittsburgh, at three o'clock on the afternoon of January 30th. A special invitation is extended by the gardeners of Pittsburgh and vicinity to the officials attending the executive session to attend the conference.

NEW YORK FLORISTS' CLUB

The New York Florists' Club held its first meeting of the year on January 13th with over 150 members in attendance including ten ex-presidents. Charles Schenck the retiring president made the following address:

Valedictory Address of Ex-President Schenck

As this will be the last meeting at which I shall have the honor to preside, I want to take advantage of the occasion, to thank every member of the Club who has attended our meetings during my administration for his assistance and kind support.

The past year has been fraught with many vicissitudes for the florist, and I might say that if it were not for the organized action of the New York Florists' Club and the Society of American Florists, a great many growers today would have had empty and desolate houses staring them in the face. However, a great many who have not taken an active part in our work may not realize it. I can state, on positive authority, that the persistence of our Committees made the Government take notice of the importance of our industry, which they termed as purely non-essential, and so modified their terms that we at least could keep our plants going. In proof of this, I can safely state that there is not a greenhouse establishment managing to secure more than the allotted 50 per cent of coal, which was molested by the local fuel administrator.

Other businesses did not fare so well, as we had proof daily, in our papers, of dealers who were fined and had to pay penalties for violating the rules the Government had laid down.

Our Annual Flower Show has been postponed until 1920, simply for the reason that the Government has taken over the Grand Central Palace, and there was no other suitable building. But I do hope that every member will take a keen interest in the 1920 show, that it may keep its place as the leading society affair in the great metropolis.

As regards the Liberty Loans, we sold over \$350,000 of the third bond issue, and over \$400,000 of the fourth. We were highly commended by the Government, and the Florists' and Allied Trades stand high in the estimation of the Government today.

In the work of assistance to the soldiers, both over here and over

there, we have done a goodly share. Besides liberal money donations to the Red Cross, we have sent an automobile to France. We have liberally donated flowers in the past year to the sick soldiers in the base hospitals, and we have taken part in a great many other affairs for the relief and entertainment of the soldiers.

To the various committees I wish to extend my sincere thanks, and particularly to the chairman of each, who have so ably assisted in the consummation of a successful year for the Club. I wish to inform them that the Club, as well as myself, has recognized their ambition to keep the morale of the Club at the peak of the high standard made.

To our Secretary, Mr. Young, I shall feel that I owe an everlasting debt of gratitude. It was a pleasure to work with him. Through his knowledge of the different works of the craft gained by so many years of experience, he was always ready and willing to assist in dealing with any of the perplexing questions which occasionally arose during my administration. I believe the club is well served by a thoroughly experienced and able secretary.

The club during my administration has taken a step which for some years has been felt to be a necessary one—it has secured office quarters, where all our business can be transacted in a manner befitting its dignity as the largest and most influential club in the trade. The need of an office and headquarters could scarcely be better demonstrated than during our last Liberty Loan drive, when it was the seat of direction for our entire division.

It has been pleasing to note that there have been many additions to our membership from the retail trade. I am sure that the representatives of this branch of our calling have seen that our work is in their interests as well as in the interests of the various other branches, and we ought to have a very much larger representation of the retail ranks in our organization.

Our Club has been particularly well represented in the Service, made necessary by the gruesome war just ended. Our honor roll carries the names of members who have been called from their activities in the trade, and I trust it will be our good fortune to welcome all of them back, safe, sound and hearty.

Gentlemen, it is with sincere regret that I relinquish my honorable position, but if in your opinion, I have served you faithfully during my occupancy of the chair I am well satisfied.

I regret exceedingly to realize that there are many things for the good of the Club which I have not done. However, in my capacity as an ex-president, I am still yours to command. I sincerely hope that my successor will receive the support you have given me, and with it I can surely bespeak a continued success for the New York Florists' Club.

Philip F. Kessler the newly elected president after being presented with a gavel by the retiring president spoke as follows:

I have the honor tonight to be installed as the thirty-third elected president of the largest and most important local organization of florists in this great country.

In taking over the reins of office, I deeply appreciate my responsibility for a continuance of the successful progress of the club in the various lines of work so ably directed by my predecessors, work which has given our body the prestige it enjoys today, as an important factor in the development and advancement of American horticulture.

Happily, the adverse conditions under which your retiring president labored during the year just passed have ended, and we may look forward to peaceful and prosperous times, favorable to our projects and conducive to the healthy development and growth of our organization.

While our membership is large in comparison with that of many similar institutions, it is by no means as large as it might be. Of, perhaps, 2500 florists who, in their own interests, should be connected with us, we have only about one-fifth of this number. The benefit accruing from organization needs no exploitation from me. The day when an individual could raise his voice in protest against trade evils or unjust legislation passed many, many years ago, and its passing resulted in the establishment of this club as a most necessary organization for the protection of our interests as a whole, and the advancement of our business as one essential to home life.

During my administration I feel assured that I shall have the support

of my fellow members in the promotion and carrying out of whatever is decided upon as a necessary part of our work. It shall be my object to encourage and help any endeavor which may come from our younger members as likely to increase interest in our meetings and promote our usefulness as a trade body. Our discussions are free and open, and no one should feel that because his membership is more or less new, his views or ideas should not be presented. The motto of our club, "All One," is intended to be taken literally. We are really all one, and no one more than another.

We shall have many things to engage our attention this year, not the least of which will be the securing of more adequate accommodation for our meetings. All must admit that we have outgrown our present quarters, but what we can do, in the present rather congested housing conditions so apparent in our city, is a matter for serious consideration.

In taking the gavel of office from my worthy predecessor, I realize that there is a surrender from an officer who has been tried in the fire and found absolutely true; and when I am called upon to make a similar surrender it is my fondest hope that the same can be said of me, and I shall do my best to have it said worthily.

The other officers were called to the platform and acknowledged in a graceful way their re-election.

President Kessler then announced his committee appointments as follows:

Legislative Committee—W. H. Siebrecht, Jr., P. O'Mara, F. R. Pierson.
Awards—Chas. W. Knight, Chairman, A. Herrington, Peter Duff, Jos. A. Manda, W. H. Siebrecht, Sr., S. G. Milosy, W. R. Pierson.

Flower Show Committee—C. H. Totty, Chairman, Chas. Schenck, F. H. Traendly, G. E. M. Stumpp, Wallace R. Pierson, W. H. Duckham, Max Schling, P. W. Popp, A. L. Miller, John Young, P. F. Kessler.

House and Entertainment—Peter Gerhaid, Chairman, Ayres Booth, Alex. M. Donaldson, Edw. A. Hanft, Henry Hoffmann.

Exhibition Committee—Roman J. Irwin, Chairman, L. T. Rodman, Fred K. Cowperthwaite, A. Buchholz.

Essay and Lecture—E. C. Vick, Chairman, John H. Pepper, A. T. DeLaMare.

Publicity Committee—J. H. Pepper, Chairman, G. E. M. Stumpp, E. C. Vick.

To Collect Flowers for Hospitals—Joseph Feurich, A. Le Moutt, Peter Gerhaid, Paul A. Rigo, John R. Kervan, Maurice Glass, Tony or Costos Sakelos, A. S. Nash, P. F. Kessler.

Dinner Committee—Charles Schenck, Andrew Scott, A. T. Bunyard, Wm. H. Siebrecht, Jr., Emil Schloss.

Treasurer Rickards presented his report, verified by the audit of the Trustees, which showed a balance in the bank of \$15,556.00.

The following were elected to membership in the Club:

R. H. C. Bard, Syracuse, N. Y.; F. G. Sealey, 3056 Perry Ave., Bronx, N. Y.; O. J. Van Bourgondien, 147 Magnolia Ave., Arlington, N. J.; Bornatt Klugman, 3917 King's Highway, Brooklyn, N. Y.; Simon Schneirow, 3917 King's Highway, Brooklyn, N. Y.; Isadore Landsman, E. 38th St. and Lenox Rd., Brooklyn, N. Y.

Nominations for election at the next meeting were as follows:

Hans Schwartz, Riverdale, N. Y.; James Moran, Purchase St., Rye, N. Y.; Anthony Moran, Purchase St., Rye, N. Y.; Robert H. Lickman, Brookwood Gardens, East Islip, N. Y.; Joseph Lee, Windholme Farm, Islip, N. Y.; Frank Laban, 55 West 26th St., New York city; Matthew Sampson, Jr., 55 West 26th St., New York city; Max Lehmann, 292 Grand St., New York city; Robert LaBan, 55 West 26th St., New York city; Isaac Abrams, 123 E. 7th Ave., Brooklyn, N. Y.; Wm. Doyle, 55 West 26th St., New York city.

The Secretary made a report reviewing the work of the Club for 1918 and it was seen that 58 new members had been initiated and the losses were 8 through resignations and death.

A resolution on the death of Mrs. Milliot of Yonkers was read and adopted and a committee appointed to prepare memorials on the deaths of George Allen and Mrs. McGovern. A resolution presented by John Scheepers on the death of Captain DeLa Mar was passed.

On motion of Chas. Schenck, it was decided that the club should hold its annual dinner, as usual, and President Kessler appointed the following committee: Chas. Schenck, Andrew Scott, Alfred T. Bunyard, W. H. Siebrecht Jr., Emil Schloss, to carry out arrangements for the dinner.

The President also appointed a transportation committee to arrange details on the trip to Cleveland for the occasion of the American Carnation Society's convention and exhibition on January 29th and 30th. He also announced that the committee on collection of flowers for distribution in military and naval base hospitals would stand, supplemented by Aubrey S. Nash and himself.

There was quite a discussion on the subject of Publicity, as directly applied to the work of the National Publicity Campaign. Secretary John Young made a lengthy address in which he detailed many comical experiences incidental to his recent "coast to coast" trip in the interests of the Campaign. His various stories were enjoyed by his audience, who appeared to think that his oration was exactly too short.

Wallace R. Pierson also had quite a little to say on the subject of Publicity and drove home a point when he told what the Hartford florists were doing at holiday times. He said they were using whole pages in their local newspapers on a co-operative basis and he wondered whether the New York florists were ready to adopt a similar course.

G. E. M. Stumpp spoke of the great value of the slogan, "Say It With Flowers," to such as would use it. "Say it in every way," he said "even with soles of a florist's foot."

NORTHAMPTON FLORISTS' AND GARDENERS' CLUB

The monthly meeting of the Northampton and Holyoke Florists' and Gardeners' Club was held on Tuesday, Jan. 7, at Butler & Ulman greenhouses, Northampton, with a good attendance. The club decided to offer a price for the best exhibit at each meeting for the coming year to stimulate more interest in bringing out exhibits.

Being carnation night a fine exhibit was made of twenty-three vases of carnations from four growers of the vicinity. Butler & Ulman won the first prize with a vase of Laddie and were also awarded a certificate of merit for the extensive decorations at their greenhouses for the occasion.

A. HAESELER.

FLORISTS' HAIL ASSOCIATION OF AMERICA.

Occasionally a former member of the Florists' Hail Association who has been chasing after will-o'-the-wisp windstorm insurance writes, "How can we get back into the old reliable F. H. A.?" Easiest thing in the world. Make an application for new membership and upon the receipt of the initiation fee you will be properly enrolled. Same thing applies to those who desire membership.

JOHN G. ESLER.

NEWS NOTES.

North Easton, Mass.—Charles J. Norling after a service of 20 years as grower at the greenhouses of John MacFarland, has resigned his position to take effect Feb. 1. He goes with James H. Leach & Sons.

Glen Cove, L. I.—Carnation Laddie was the feature of an exhibit at the January meeting of the Nassau County Horticultural Society. It was shown by J. F. Johnston of the George D. Pratt estate and he received a certificate of culture, as well as the favorable comment of all horticulturists present.

Obituary

Mrs. Thomas Page.

The many friends, throughout the United States, of Mr. and Mrs. Thomas Page of Great Barrington, Mass., will be shocked to learn of the sudden death of Mrs. Page on Saturday, January 4, 1919, following an operation at the House of Mercy Hospital, Pittsfield, Mass. Mrs. Page is survived by her husband and three young children. She was a charming and accomplished Edinburgh woman and will be gratefully remembered for her whole-souled hospitality and kindness to visiting horticulturists at "Brookside." She had been active in Red Cross and other women's war work since 1914. Her death is a severe loss to Great Barrington and to her multitude of friends everywhere.

Mrs. Emily Blewett Prickitt.

Pneumonia has claimed another victim who was closely connected with the trade, and it was with extreme regret that the news of the death of Mrs. John Prickitt at Des Plaines on Jan. 8th was received by her many friends. Emily Blewett was born in London, Eng., forty-two years ago and her father, H. C. Blewett is one of the best known growers of Des Plaines, Ill., where he has lived for many years, and he has the sincere sympathy of the trade in the loss of this, his only daughter. Mrs. Prickitt also leaves her husband and one brother, Harry Blewett, who are growers and are operating a fine range of houses under the name of the Des Plaines Floral Co. Mrs. Prickitt had a nature which endeared her to those around her and she will be sorely missed.

George Conklin Saltford

George Conklin Saltford, vice-president of The Saltford Flower Shop, Poughkeepsie, N. Y., died suddenly at his home on North avenue on Thursday, Jan. 10. He was well known to the trade and was a splendid artist in his chosen profession and had a host of friends. He was born in Poughkeepsie and lived there all his life. Mr. Saltford was Commodore of the Poughkeepsie Yacht Club, chaplain of the Elks, a member of Booth Hose Co. and the Dutchess County Horticultural Society. The funeral took place on Sunday and was attended by representative men from many parts of the state. Many handsome floral pieces were sent by friends, among which was a casket blanket of carnations. Mr. Saltford married Miss Carrie Gregg of Goshen, Orange Co., N. Y. who survives him. He is also survived



The accompanying picture is of a very rare and beautiful Dendrobe from the Philippines, flowered in the orchid collection of Louis Burk, at Philadelphia. The picture shows seven flower spikes with an average of ten flowers on each. The sepals are of a

beautiful dark wine color with pinkish white petals. Mr. Burk received these plants from the late Wm. S. Lyon, hence the name, Dendrobium Lyonii. This plant was grown and flowered in an intermediate cattleya house.

by one son 11 years old, by his parents Mr. and Mrs. W. G. Saltford and a brother, W. Arthur Saltford.

Lieut. William Aherne.

Lieut. William Aherne, a well-known florist of Columbia, Pa., died from valvular disease of the heart on the morning of January 9.

October 6, 1878, he enlisted as a private in Co. H, 11th Regiment of N. G. P. and was subsequently appointed corporal, sergeant and first sergeant of the company and in 1891 was commissioned first lieutenant. He commanded the company during the Homestead strike.

He was one of the old-time florists with a knowledge of plant life and culture that one seldom finds today, and that deep love for his plants and flowers that made it a pleasure to see him among them.

He was a member of St. Peters Catholic Church, Knights of Columbus and the Lancaster County Florists' Association. Honored and respected by them all, his loss will be keenly felt.

His wife, who preceded him to the "great beyond" by several years, was

Miss Mary Brady of County Wexford, Ireland.
ALBERT M. HERR.

SEEDS

ASPARAGUS Plumosus	
Northern Greenhouse Grown	
1,000 Seeds	\$3.25
5,000 Seeds	14.00
10,000 Seeds	25.00
25,000 Seeds	56.25

ASPARAGUS Sprengeri	
1,000 Seeds	\$1.25
5,000 Seeds	6.00
10,000 Seeds	10.00

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ROCKPORT, ME.

CONTROLLING CUCUMBER DISEASES BY SEED TREATMENT AND CROP ROTATION.

Simple and important methods of controlling two cucumber diseases are the use of disease-free seed and rotation of crops. The results of recent investigations are published in an article on the cucumber angular leaf spot disease in the Journal of Agricultural Research and in Department of Agriculture Bulletin 727 on the anthracnose disease of vine crops.

These diseases overwinter both in the fields where diseased crops are grown and on the seed saved from such fields.

Should Treat Seed Now

Disease-free seed can be secured by soaking them for five minutes in a 1 to 1,000 solution of corrosive sublimate and then washing 15 minutes in running water. The germination is not injured by this treatment.

Seed treatment can be done most advantageously and with the smallest outlay of time and labor by commercial seed dealers, seed growers, pickle companies, or other wholesale seed handlers while the seed are still in large quantities, and before they have been distributed to retailers and growers.

Seed Treatment Simple.

Seed treatment is a comparatively simple operation and can be done in storage houses if running water is at hand.

Caution.—The highly poisonous nature of corrosive sublimate (mercuric chloride) should be kept in mind throughout the entire process of seed treatment.

In practice the following procedure has been found advisable. In order to dissolve the mercuric chloride rapidly an equal quantity of ammonium chloride should be used. Purchase 1 pound each of mercuric chloride and ammonium chloride for every 500 pounds of seed to be treated. Make up a concentrated stock solution of a strength of 1 to 20 by dissolving 1 pound of each in 2½ gallons of water. This stock solution is diluted to 1 to 1,000 by adding 2 quarts to 2½ gallons of water. Stir thoroughly before using. Metal containers can not be used for the mercuric chloride solution. In making up the stock solutions use graniteware measures and wooden pails; for the treatment use barrels.

Immersing the Seed.

Place seed in loosely woven bags, 50 pounds in each. The bags should not be over three-quarters full, to al-

low for swelling of the seed and to facilitate stirring. Immerse the bag of seed in 25 gallons of the 1 to 1,000 bichloride solution and agitate vigorously to secure thorough wetting of the seed. Remove the bag promptly at the end of five minutes and immerse at once in running water in a barrel and stir thoroughly. Wash about 15 minutes. Dry the seed as rapidly as possible. Forced drying by an air blast is much to be desired.

The bichloride solution may be used only twice, since its strength is reduced by use. Make up a fresh dilution from the stock solution for every two bags of seed.

Guard against reinfection of the treated seed. Bags to be used for treated seed should be soaked in the 1 to 1,000 bichloride solution for at least five minutes, rinsed, and dried. This can be done most readily by using these bags for the original seed treatment, being careful that the entire bag is immersed.

Rotate Crops.

Growers should never plant cucumbers, cantaloupes, or watermelons on fields where the anthracnose or the angular leaf-spot disease occurred on

FOUR NEW GIANT STOCKS

GREENHOUSE SAVED SEED

LENOX PINK
LENOX WHITE

LENOX MAUVE
LENOX PURPLE

Each color separate. Tr. pkt. 25c.; ¼ oz. \$1.25

The LENOX STOCKS are great improvements on the Beauty of Nice Strain. They bloom in four to five months from sowing and under good cultivation, (disbudded), attain a height of 2½ to 3 feet, producing a gigantic flower spike bearing beautiful large double flowers, the actual seed offered above has produced as much as 85% double flowers.

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Original Cases containing 1750 Pips,
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Horticultural Books

For Sale by

HORTICULTURE PUBLISHING CO.

Chrysanthemum Manual. Elmer D Smith	\$0.50
The Chrysanthemum. Herrington .....	.50
Commercial Carnation Culture. Dick	1.50
Commercial Rose Culture. Holmes	1.50
Violet Culture. Galloway.....	1.50
Greenhouse Construction. Taft..	1.50
Sweet Peas up to Date. Kerr...	1.50
Plant Propagation, Greenhouse and Nursery Practice. Kains..	1.50
Plant Pruning. Kains.....	1.50
Book of Garden Plans. Hamblin.	2.00
Landscape Design. Hubbard....	6.00
The Art of Outdoor Rose Growing. Thomas.....	6.00
The Home Vegetable Garden. Kruhm	1.00
Vegetable Gardening. R. L. Watts	1.75
Parsons on The Rose.....	1.00
Principles of Floriculture. B. A. White	1.75
Foundations of American Grape Culture. Munson.....	2.00
Plant Materials of Decorative Gardening. Trelease.....	1.00
Aristocrats of the Garden. Wilson	5.00
Bailey's Cyclopedia of Horticulture, 6 volumes.....	25.00

CATALOGUES RECEIVED.

L. E. Williams, Exeter, N. H.—Price list of collected native trees, shrubs and plants for 1919. As usual, a comprehensive and valuable list of native bulbs, shrubs and ferns.

Burnett Bros., 92 Chambers St., New York.—Annual catalogue of seeds, bulbs and plants for the year 1919. There is no indication in this progressive list of standard and novelty introductions that Burnett Bros. have any pessimistic ideas regarding the future. It is an enterprising and well put up catalogue and very creditable to the firm.

Conard & Jones Co., West Grove, Pa.—Catalogue of "The Best Roses for America." As usual, a well printed and profusely illustrated magnificent catalogue, well worthy of wide distribution. For cover illustration, the new hardy yellow Rose Hugonis forms a most inspiring and appropriate picture. On the rear page of catalogue are three portraits of Gold Medal Cannas.

Maurice Fuld, 7 West 45th St., New York.—Not a catalogue and yet with a good catalogue efficiency. No. 7 of Volume 3 of Flower Lore by Maurice Fuld has been received. It bears on the title page a word that it purports to be a real practical magazine for the garden enthusiast, and as such we can unreservedly commend it. Especially worth reading is an article entitled The Underpaid Gardener, and which would be to the interest of many gardeners to take into thoughtful consideration. We find much in it to which we can respond with full approval.

A. E. Kunderd, Goshen, Ind.—Kunderd's Gladioli, 1919. A beautiful and artistic catalogue as usual and up-to-date as the last word in American gladiolus progress. The cover page shows a handsome picture of the new ruffled variety Elegance, and there are other illustrations of representative varieties of the new races which Mr. Kunderd has so successfully introduced. We make no mistake in saying that every gladiolus lover should have Kunderd's catalogue and have access to the new things which he is constantly adding to the list of advanced sorts.

Henry A. Dreer, Philadelphia, Pa.—Dreer's Garden Book for 1919. It seems hardly possible to say anything as to the merits of this welcome annual visitor further than we have said in past years as to its standing among

the foremost seed and plant catalogues in America. It is worth mentioning that the plant embargo and other serious interferences which have been added to the plantsmen's difficulties have not encroached upon the enterprising and inspiring character of this list of good things. It will meet with a hearty welcome and inspire confidence in floriculture for the coming year in any quarter where it may have ebbed. There are several colored plates, one of them particularly of late blooming asters being especially beautiful. A sheet containing an obituary notice of the late William F. Dreer accompanies the book.

WHAT IS THE BEST WAY TO STORE MANURE?

Manure fermentation is greatly lessened if it is kept compact and moist. When convenient, leave in sheds and allow stock to keep it compact by trampling. In such a case the liquid manure will keep it moist enough. If it must be removed to the lots, pile in ricks with nearly perpendicular sides and flat tops. If the rick can be made in a shallow concrete lined pit much of the loss due to leaching will be prevented. If properly ricked the rains will usually keep

the manure moist enough to prevent most of the fermentation.

Manure carelessly piled or scattered in open lots is always subject to excessive leaching, as well as to fermentation. Furthermore, manure in loose piles often "fire-fangs." This condition is caused by molds and may result in a large loss of plant food in a very short time. Moist, well-packed manure does not "fire-fang."

PATENTS GRANTED.

- 1,285,183. Fertilizer-Distributor. David R. Holden, Peoria, Ill.
- 1,285,203. Hedge-Trimmer. William Hollingsworth Jaeger, Trenton, N. J.
- 1,286,258. Plant-Support. S. Spencer Eccleston, Cortland, N. Y.
- 1,286,545. Garden-Plow. William R. Daily, Logan, Kans.
- 1,286,710. Cultivator. Samuel E. Mills, Raymondville, Texas.

Washington.—Nation-wide planting of trees and the naming of a great national highway in honor of Theodore Roosevelt were suggested today as memorials to the former President by Charles Lathrop Pack, president of the American Forestry Association. Col. Roosevelt served for a number of years as vice-president of the association.

Farquhar's Giant Cyclamen

Awarded the Gold Medal of the Massachusetts Horticultural Society

Farquhar's Giant Crimson-

scarlet 100 seeds \$2.25

Farquhar's Giant Salmon 100 seeds 2.00

Farquhar's Giant Crimson

Farquhar's Giant Pink

Farquhar's Giant White

Farquhar's Giant Blood Red

Farquhar's Giant Excelsior

Each of the above 100 seeds \$1.75

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Of Interest to Retail Florists

A STORE BEAUTIFUL.

The new store of The Heepe Co., Akron, O., is a triumph among modern retail flower stores, and is a splendid expression of the ideals of the young men who preside over the destinies of that flourishing concern. Both in artistic beauty, as well as in conveni-

This is to Announce that the **Chicago Florists' Club**, offers for sale a limited quantity heart-shaped stamps for advertising St. Valentine's Day, the same as issued a year ago.

We have only a limited number of these stamps, and therefore quote the following special prices:

500 Stamps.....\$2.00

1000 Stamps..... 3.00

First come—first served. Send all orders and remittances to F. Lautenschlager, 440-472 W. Erie St., Chicago. Make all checks payable to Mr. Otto H. Amling, Treas. Chicago Florists' Club, Chicago, Ill.

ent arrangement, it is a masterpiece, well worth a long journey to see. The phenomenal growth of the city of Akron made the limited business district tremendously inadequate, and down town florists felt the pressure. The Heepe Co., with an enterprise characteristic of its personnel, and with a firm faith in the future settled

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NO ORDERS ACCEPTED FOR LESS
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735 Euclid Avenue
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Flowers of Every Kind in Season

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5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

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ANDERSON service means fresh, sturdy
stock and prompt deliveries in BUFFALO,
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For Retail Stores a Specialty
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Member Florists' Telegraph Delivery

the question forever by the building
of a home, which is not only a sub-
stantial addition to the sky-line of
their city, but a credit to the men and
to their profession.

Visitors' Register

Philadelphia—W. E. Mills, State
Nursery, Helena, Mont.; Ben Delaney,
J. Chas. McCullough & Co., Cincinnati,
O.; G. A. Beck, Milton, Pa.

Chicago—A. J. F. Baur of Baur &
Steinkamp, Indianapolis, Ind.; Ove
Gnatt, La Porte, Ind.; Fred Herroch,
La Porte, Ind.; Mr. and Mrs. C. C.
Pollworth, Mil.; E. A. Feters, De-
troit, Mich.

NEWS NOTES.

North Abington, Mass.—John L.
Bennet who has been employed for a
number of years by the Wyman
nurseries has accepted a responsible
position with a landscape gardening
concern in Connecticut.

Paterson, N. J.—Edward Sceery,
president of the park commission for
the past eleven years, has been chosen
for the twelfth consecutive term to
head the board. Mr. Sceery was the
unanimous choice. William Merz was
unanimously re-elected as vice-pres-
ident. They were nominated by Com-
missioner Tilt.

Quality and Reliability WARBURTON

FALL RIVER, MASS.

Deliveries of Flowers and Plants
in FALL RIVER and contiguous
territory.

H. F. A. LANGE

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WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Jan. 16		ST. LOUIS Jan. 13		PHILA. Jan. 13	
Roses						
Am Beauty, Special	50.00	to 75.00	50.00	to 60.00	80.00	to 90.00
" " Fancy and Extra	35.00	to 50.00	30.00	to 40.00	60.00	to 75.00
" " No. 1 and culls	10.00	to 30.00	12.00	to 20.00	20.00	to 30.00
Russell	15.00	to 35.00	15.00	to 40.00	25.00	to 30.00
Hadley	15.00	to 35.00	10.00	to 25.00	10.00	to 40.00
Mock Key	15.00	to 35.00	5.00	to 25.00	.....	to
Arenberg, Hoosier Beauty	10.00	to 30.00	15.00	to 35.00	12.00	to 30.00
Ward, Hillingdon	15.00	to 35.00	8.00	to 12.00	.....	to
Killarney, Key, Taft	15.00	to 35.00	6.00	to 15.00	10.00	to 25.00
Ophelia, Sunburst	15.00	to 35.00	10.00	to 20.00	10.00	to 25.00
Carnations	8.00	to 12.00	3.00	to 0.00	8.00	to 1.00
Cattleyas	50.00	to 75.00	.....	to 100.00	60.00	to 75.00
Lilies, Longiflorum	25.00	to 35.00	.....	to 25.00	25.00	to 30.00
Lilies, Speciosum	8.00	to 20.00	.....	to	5.00	to 8.00
Lily of the Valley	4.00	to 8.00	8.00	to 10.00	.....	to
Snapsdragon	.....	to	8.00	to 15.00	15.00	to 20.00
Violets	1.00	to 2.00	.75	to 1.00	.....	to 2.00
Stevia	2.00	to 3.00	.....	to .....	.....	to
Calendula	2.00	to 4.00	4.00	to 8.00	6.00	to 8.00
Sweet Peas	2.00	to 4.00	1.00	to 2.00	1.50	to 4.00
Gardenias	.....	to 100.00	.....	to .....	.....	to 50.00
Adiantum	1.00	to 1.50	.....	to 1.50	1.50	to 2.00
Smilax	.....	to 25.00	.....	to 25.00	25.00	to 30.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	35.00	to 50.00	25.00	to 50.00	50.00	to 60.00

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

Wholesale Growers of Cut Flowers

ROSES, CARNATIONS

AND ALL OTHER SEASONABLE STOCK

Shipping orders have most careful attention always

WILLIAM F. KASTING Co.

Wholesale Florists

568-570 WASHINGTON STREET - BUFFALO, N. Y.

Flower Market Reports

Conditions show but little change in the market over the preceding week.

Prices holding about the same all along the line. Shipments have not been large but what stock has been received is of excellent quality. Roses and carnations have improved considerably, and while not moving as rapidly as in the past few weeks, the market is generally pretty well cleaned up. Lilies are the one scarce article and violets are having a better sale, and what few paper whites that have come in have found ready purchasers.

The reaction following the holidays is over and business has steadied to a pace that is very satisfactory, and if it holds as it is at this time there will be no stock wasted. Local sales have picked up. Social affairs and funerals are taking all the stock left after shipping orders are filled. The crop of roses is not large at this time but remains about as it has been since the early days of December. Carnations are more plentiful, but of these many are splits caused by the dark days and there are none too many first class ones. Paper whites are selling at 6c. and the yellow at 8c., which is a record for these. Some good freesia is also selling for prices that make life easier for the grower. Snapdragons are fine and customers willingly pay three dollars per dozen for the best. There are none too many of the lilies and in fact miscellaneous stock in general meets a ready sale.

The market is good and active and everything coming in is being cleaned up by the buyers. In fact last week the market partially returned to the conditions immediately preceding the holidays. Stock is more plentiful and is keeping the prices to a reasonable point. The call from out of town for stock and supplies is very heavy. The rose supply has shortened, while carnations, on the other hand, have become more plentiful. Easter lilies and callas are in a fair supply. Rubrum lilies are now coming in. Sweet peas are finding a good market and are bringing excellent prices. Freesia and Paper White Narcissus sell well. Lily of the valley and orchids move rather slowly. Single violets find a fair market, also snapdragon. The same can be said

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Jan. 13		CHICAGO Jan. 13		BUFFALO Jan. 13		PITTSBURG Jan. 13	
Roses								
Am. Beauty, Special	40.00	to 60.00	50.00	to 60.00	60.00	to 75.00	50.00	to 75.00
" " Fancy and Extra	20.00	to 30.00	30.00	to 40.00	25.00	to 50.00	25.00	to 40.00
" " No. 1 and culls	8.00	to 15.00	15.00	to 25.00	5.00	to 20.00	5.00	to 20.00
Russell	15.00	to 35.00	6.00	to 25.00	8.00	to 30.00	10.00	to 20.00
Hadley	15.00	to 25.00	15.00	to 25.00	8.00	to 15.00	.....	to
Euler, Mock	15.00	to 25.00	15.00	to 25.00	6.00	to 18.00	10.00	to 20.00
Arenberg, Hoosier Beauty	10.00	to 20.00	8.00	to 20.00	6.00	to 10.00	.....	to
Ward, Hillingdon	8.00	to 15.00	6.00	to 12.00	6.00	to 8.00	6.00	to 15.00
Killarney, Key, Taft	8.00	to 15.00	5.00	to 20.00	6.00	to 15.00	6.00	to 15.00
Ophelia, Sunburst	8.00	to 25.00	6.00	to 18.00	6.00	to 15.00	8.00	to 20.00
Carnations	4.00	to 6.00	2.00	to 4.00	4.00	to 8.00	4.00	to 6.00
Cattleyas	50.00	to 75.00	75.00	to 100.00	60.00	to 75.00	50.00	to 75.00
Lilies, Longiflorum	.....	to 20.00	12.00	to 20.00	15.00	to 20.00	10.00	to 25.00
Lilies, Specieum	.....	to .....	.....	to	8.00	to 10.00	.....	to
Lily of the Valley	.....	to 8.00	6.00	to 8.00	8.00	to 12.00	8.00	to 12.00
Snapdragon	15.00	to 20.00	10.00	to 20.00	6.00	to 12.00	4.00	to 8.00
Violets	1.00	to 1.50	2.00	to 3.00	1.00	to 1.50	.75	to 1.00
Stevia	.....	to	2.00	to 3.00	.....	to .....	.....	to
Calendula	4.00	to 5.00	3.00	to 5.00	4.00	to 6.00	4.00	to 8.00
Sweet Peas	1.50	to 2.00	1.50	to 3.00	1.50	to 3.00	1.00	to 2.00
Gardenias	.....	to	25.00	to 50.00	20.00	to 25.00	.....	to
Adiantum	1.00	to 1.50	1.00	to 1.50	1.25	to 2.50	.....	to 2.00
Smilax	20.00	to 25.00	20.00	to 25.00	20.00	to 25.00	.....	to 20.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00	to 50.00	50.00	to 75.00	35.00	to 50.00	50.00	to 60.00

of Stevia. Other offerings are Calendula, Mignonette, Forget-me-not and Baby Primrose.

Market conditions during the week ending January 11 were sluggish caused by a supply in excess of demand. Carnations in particular, were plentiful, and it would seem that the exorbitant figures charged the public for this popular flower during the holidays, has seriously lowered the demand for it. With roses the condition was entirely different. At no time since the holidays have they been in sufficient supply to take care of the call, and by the middle of last week, the scarcity became acute. Liberal quantities of both pink and white Killarney arrived, but Ophelia, Shawyer, Ward and Russell, were unobtainable except in very small amounts. Both paper whites and freesias are figuring largely in the market now, the former being in much greater request than the latter. All greens are in plentiful supply but are cleaning up daily. In retail circles trade is reported dull and various plans are being put into operation to stimulate it. Wedding orders are growing more numerous and the various social functions are again taking on life. A decided check in the death rate has also affected the trade. Growers in general are highly gratified by their December returns and a tinge of genuine optimism is discernible in their conversation. Growing conditions are at this writing excellent, there is plenty of coal on hand and the labor market has considerably eased up.

Business during the past week has been generally falling off. Stock is quite scarce, but the light demand has been about equal to the sup-

ply. Carnations are as scarce as during the past month but have a good demand. Roses are fairly plentiful with the exception of yellow varieties which are a little off crop. Easter and calla lilies are adequate for the present supply. Regarding violets the demand has been very slow with a great reduction in price in order to reduce the stock. Sweet peas are seen occasionally. The bulbous stock is arriving and includes good freesia, yellow and white narcissus which find ready sale.

An unusual number of social gatherings brought about by the return of the boys in khaki and blue has had a tendency to hold the market firm and has prevented the usual after the holiday slump. Carnations are fairly plentiful while roses, violets and sweet peas hold about the same.

There are plenty of chrysanthemums in the flower shops of Paris this winter season, but they are sold at a prohibitive price, anything between two and ten francs being charged for a single bloom. It is said that they were never more expensive, even during the first years when they became known in France, when the chrysanthemum was regarded as a great rarity.—*Christian Science Monitor*.

THE National Nurseryman

The oldest and best established journal for nurserymen. Circulation among the trade only. Published monthly. Subscription price \$1.50 per year. Foreign subscriptions, \$2.00 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
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Consignments Solicited

MAURICE L. GLASS, Treasurer

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Part of Week ending Jan. 11 1919		First Part of Week beginning Jan. 13 1919	
American Beauty, Special	35.00	to 100.00	35.00	to 100.00
" " Fancy and Extra	20.00	to 33.00	20.00	to 35.00
" " No. 1 and culls	5.00	to 20.00	5.00	to 20.00
Russell	10.00	to 50.00	10.00	to 40.00
Hadley	10.00	to 50.00	10.00	to 50.00
Euler, Mock, Key	10.00	to 40.00	10.00	to 40.00
Arenberg, Hoosier Beauty	8.00	to 25.00	8.00	to 25.00
Ward, Hillingdon	8.00	to 20.00	8.00	to 20.00
Killarney, Taft	10.00	to 25.00	8.00	to 20.00
Ophelia, Sunburst	10.00	to 30.00	8.00	to 30.00
Carnations	8.00	to 12.00	6.00	to 12.00

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Send for price list if you have not re-
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10,000...\$2.25 50,000...\$9.75 Sample free.
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Telephone Main 55

When writing Advertisers kindly mention Horticulture

Local and General News

PHILADELPHIA.

Louis Burk has been suffering for quite some time with numerous carbuncles because of which he is now about to start on a trip to the south in hopes of relief.

Howard M. Earl celebrated his thirty-second anniversary of his entry into the American Seed Trade by giving a little dinner to a few friends at Dooners Hotel, January 10th.

S. S. Pennock has been missed from his usual haunts for a few days on account of sickness in his family at Lansdowne. Mrs. Pennock and their two daughters are all under the weather. Maybe the 'flu. has come back again but we hope it is nothing serious. We hear of a recrudescence of it along in Delaware and Chester counties.

Peter Fisher sent a fine exhibit of his new carnation Red Cross for the January meeting of the Florists' Club but unfortunately it did not arrive in time. It was shown at the Pennock Company market and excited much favorable comment. It is a fine glowing red in color and has a free artistic form of flower of large size. Stem and calyx show up to the highest standard and altogether this looks like a welcome newcomer from the home of the long line of good ones that have emanated from the wizard who gave us the thirty thousand dollar Lawson and has kept right on giving us finer and better as the years rolled by. The way prices have been running this winter brings back those old halcyon days and fifteen dollars a hundred for pinks. If John Thorpe and Ed. Lonsdale could revisit the scenes now we can imagine how they would glow and smile and shout "Redivivus."

CHICAGO.

A move is on foot to have the proposed monument to the late Theodore Roosevelt placed in one of Chicago's forest preserves, rather than in a city park.

Friends of our Native Landscape, of which club Jens Jensen, Chicago's noted landscape architect, is president, had dinner at the Art Institute and their mid-winter conference Jan. 10. A fine collection of pictures by American artists, showing American landscapes, is at the Art Institute.

A fire in the basement under the

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NEW YORK

TELEPHONES
Farragut 167 and 3088

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Part of Week ending Jan. 11 1918		First Part of Week beginning Jan. 13 1918	
Cattleyas.....	25.00	to 75.00	25.00	to 75.00
Lilies, Longiflorum.....	20.00	to 25.00	20.00	to 25.00
Lilies, Speciosum.....	8.00	to 12.00	8.00	to 12.00
Lily of the Valley.....	6.00	to 12.00	6.00	to 12.00
Snape dragon.....	4.00	to 12.00	6.00	to 12.00
Violets.....	.50	to .75	.40	to .60
Stevia.....	5.00	to 12.00	5.00	to 12.00
Calendula.....	3.00	to 6.00	3.00	to 6.00
Sweet Peas.....	0.00	to 35.00	8.00	to 35.00
Gardenias.....	.....	to 1.00	.....	to 1.00
Adiantum.....	15.00	to 20.00	15.00	to 20.00
Smilax.....	15.00	to 25.00	15.00	to 25.00
Asparagus Plumosus, & Sprea (100 bunches).....				



LIEUT. JOHN H. EARL,
Co. G., 111th Infantry.
Taken at Nice, France, Dec. 3, 1918

flower store of A. S. Brouton, 3207 Fullerton avenue, Sunday night, Jan. 12th, completely demolished the building and wiped out the stock and fixtures of the florist. The store was one of the most attractive on the north-west side and occupied a corner with display windows on Fullerton avenue and Kedzie Blvd. The proprietor is a native of Norway and came to this country sixteen years ago. He opened the store fifteen months ago and had built up a good trade, doing a fine

Christmas business. There was an insurance of \$500 on the fixtures and he will start again as soon as the new building is completed. An especially sad feature was the drowning of fireman Lieut. Peterson in the water in the basement.

WASHINGTON.

White arsenic and other insecticides containing arsenic have been withdrawn from the list of commodities subject to license under the provisions of the Food Control Act.

The United States Fuel Administration announces that all orders and regulations heretofore issued by it covering fuel conservation, except one relating to natural gas, have been withdrawn. The Administration will, however, continue in effect those regulations having to do with zones, prices, etc.

The Division of Operations of the United States Shipping Board announces it is prepared to name freight rates for all overseas trades both outward and homeward, and through rates from foreign markets via the United States or direct to all world markets in cargo or parcel lots. This information is of interest to importers

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<i>Wholesale Florist</i>	
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Manufacturers of ALL STYLES and
SIZES of

FLOWER POTS

A. H. HEWS & CO., INC.
Cambridge, Mass.

and exporters of plants and florists' stocks who have been waiting for such an announcement.

The Department of Agriculture has just sent two representatives to Europe to obtain information concerning clover, grass and vegetable seed stocks and requirements in the various European countries for the use of governmental agencies in shaping the export policy as to certain kinds of seed. The supply of certain of our seeds must be conserved, the Department of Agriculture states, but it may be that our people here will have to take chances on the supply so that the countries with which the United States was associated in the war may be taken care of.

ROCHESTER, N. Y.

Thomas Sullivan, of Geo. B. Hart's, has returned from training camp.

Oliver Boucher furnished the decoration at the Shoe Style Show held at Hotel Powers this week.

Miss Bishop, who has been employed by J. B. Keller & Sons for a number of years, has resigned her position as she has been recently married.

BOSTON.

The leading agricultural organizations in Massachusetts are planning for a union meeting, to be held in Boston Feb. 11-14, under the general auspices of the State Department of Agriculture. The meeting will take the place of the public winter meeting formerly held by the State Board of Agriculture. Tuesday, Feb. 11, will be given over to the Massachusetts Fruit Growers' Association, the Gardeners' and Florists' Club of Boston and the Massachusetts Nurserymen's Association. On the evening of Feb. 12 there will be an agricultural banquet at which some of the biggest speakers of the country on farm subjects will be heard.

The regular January meeting of the Cincinnati Florists' Society was held at Henry Shepherd's store on Monday evening. The attendance was unusually large.

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Advertisements in this Department, Ten Cents a Line, Net

BULBS

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Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 post-paid. I. L. PILLSBURY, Galesburg, Ill.

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Daisies, Bellis, Monstrosa, pink or white, also Longfellow and Snowball, fine strong plants, \$2.50 per 1000. \$6.75 per 3000, cash. BRILL CELERY GARDENS, Kalamazoo, Mich.

DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell.
\$10.00 per clump. Cash with order.
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New Peony Dahlia—John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

GLADIOLI

See display adv't gladiolus "Mrs. WATT."
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GLASS.

6 by 8, 8 by 10, 10 by 12 or 10 by 14 at \$4.50 per box of 50 square feet. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

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Standard Hot Bed Sash, Cypress, made with cross-bar, blind tenons, white leaded in joints, \$1.50 each. Orders for 25 or more, \$1.45 each. Glass 6 by 8, 8 by 10, 10 by 12 or 10 by 14 at \$4.50 per box of 50 square feet. Write for circular. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

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HASSALL & CO., Orchid Growers and Raisers, Southgate, London, England. Cattleyas and Laelio-Cattleyas our specialty. One trial order solicited.

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Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

SPHAGNUM MOSS

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Just Arrived, crop 1918 winter flowering SWEET PEAS, New Zealand grown, the large flowering waved or Spencer type. We have been very fortunate to secure the entire crop of one of the best growers in New Zealand. New Zealand grown seed has always produced the earliest and best blooms, and seed started in August will produce flowers from Thanksgiving until March; requiring a low temperature, these make an ideal crop for the Florist this year. Scarlet, always a good seller. Finest Mixture, all the best colors. Pink and White, Blanche Ferry type. Yarrowa (true), bright rose pink with light wings. Write for further particulars.
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Flowering and Foliage Vines, choice collection. Large Specimen, Pot and Tub grown for immediate effect; also Climbing Roses. J. H. TROY, Mount Hissarlik Nursery, New Rochelle, N. Y.

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Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

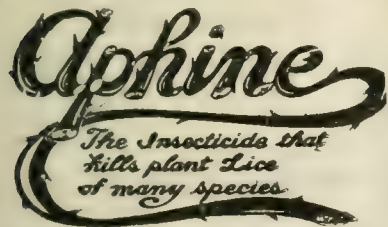
1/2 Pint, 80c.; Pint, 50c.; Quart, 90c.;

1/2 Gallon, \$1.50; Gallon, \$2.50; 5 Gallon Can, \$10.00; 10 Gallon Can, \$20.00.

Directions on package.

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A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$2.50.

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For mildew, rust and other blights affecting flowers, fruits and vegetables.

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For eel worms, angle worms and other worms working in the soil.

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HOT BED SASH

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No.	Diam.	Ea.	Doz.	100
10	20 in.	\$3.25	\$37.50	\$287.50
20	18 in.	2.75	30.00	237.50
30	16 in.	2.25	26.00	195.00
40	14 in.	1.90	22.00	168.75
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60	10 in.	.95	10.50	77.50
70	8 in.	.75	8.25	62.50

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Don't fail to read over these Ads. in each issue and you may find one or more that will prove profitable to you.

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Pecky Cypress Bench Lumber

GLASS

Gulf Cypress
HOTBED SASH

ALL KINDS AND SIZES

Unglazed, 85c. up

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KING CONSTRUCTION COMPANY, North Tonawanda, N. Y.

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We Claim Maximum Strength and Minimum Shadow. Investigate

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Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 90c. postpaid.
Samples free.

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734 Chestnut Street,
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NO. 2

MASTICA

For Greenhouse
Glazing

USE IT NOW

F. O. PIERCE CO.

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Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

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FOR
GREENHOUSES

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHESKY BROS. Inc.

Johnson, Stewart and Varick Aves.,
Brooklyn, N. Y.

*When writing to advertisers kindly
mention HORTICULTURE*

Principles and Practice of Pruning

By M. G. KAINS

Lecturer on Horticulture, Columbia University

Few practices in the handling of plants, especially fruit bearing plants, attract so much interest as do those of pruning. The methods are so varied, the results so diverse, and the opinions of growers so apparently contradictory that this subject is always one of the most interesting, and the surest to hold attention and arouse discussion.

Particularly during the last ten or fifteen years when the principles of plant physiology have been more and more satisfactorily applied to plant production and management has interest settled in pruning. During the latter half of this time also more and more investigations and tests have been conducted by experiment stations and other workers to test out methods and principles in the interest of science and for the benefit of growers. The accumulation of such new knowledge has become very considerable especially in the last decade, but it is necessarily so scattered that very few growers have access to it, hence the demand for a book, which shall present the really important features of these investigations as well as set forth the fundamental principles based upon the laws of plant growth.

This volume is lavishly illustrated mainly by actual photographs of specimens which show good and bad practices. The author has spared neither time nor expense in gathering his photographs, each one of which tells its story.

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LIST OF ADVERTISERS

Page	Page	Page	Page	Page
Allen, J. K. 93	Clarke, D. Sons. 88	Gude Bros. Co. ... 88	McHutchison Co. 83	Reed & Keller... 92
American Bulb Co. 74	Coan, J. J. 93	Hail Asso. 95	Marshall, W. E. & Co. 74	Reidel & Meyer. 92
Anderson, S. A. 89	Cooke, Geo. H. ... 88	Heistad, H. 74	McKenzie, John. 89	Reid, Edw. 90
Aphine Mfg. Co. 95	Conard & Jones. 83	Hart, Geo. B. ... 90	Metropolitan Material Co. 96	Reuter, L. J. Co. 76
Barrows, H. H. 75	Cottage Gardens Nurseries 83	Henderson & Co., Peter 86	Michell, H. F. Co. 74	Robinson, Henry M. Co. 92
Bayersdorfer, H. Co. 90	Cowee, W. J. 92	Hentz & Nash. ... 93	Michigan Cut Flower Ex. 90	Robinson, H. M. & Co. 90
Bay State Nurseries 76	Craig Co., Robt. 75	Hess & Swoboda. 89	Millang, Chas. ... 93	Roehrs, J. Co. ... 76
Bloomington's. 88	Danker 88	Hews & Co., A. H. 94	Muller-Sealey Co. 75	Roland, Thomas. 89
Bobbink & Atkins 75	Dards 88	Hill Co., E. G. ... 90	Murray, Samuel. 88	Rosery, The. 88
Boddington Co., Inc., A. T. 85	Drer, H. A. 83-95	Hill, D. Nursery Co. 76	National Nurserymen 83	Schwake, Chas. Co. 75
Bolignano & Son. 74	Dunlop, John H. 89	Irwin, R. J. 74	Nicotine Mfg. Co. 96	Sekenger, Adam. 88
Boston Floral Supply Co. 92	Dysart, R. 92	Johnston Bros. ... 88	Niessen, Leo Co. 90	Sheridan, W. F. 92
Breck, J. & Sons. 74	Edwards Folding Box Co. 90	Kasting, W. F. Co. 90	Palmer, W. J. & Son 89	Siebrecht, Geo. C. 92
Brettmeyers, J. Sons 88	Esler, J. G. 95	Kelway & Son. ... 74	Park Floral Co. ... 89	Siggers & Siggers 95
Budlong, J. A. ... 90	Farquhar, R. & J. Co. 87	Kervan Co. 92	Parshelsky Bros. 96	Sim, Wm. 74
Bunyard, A. T. ... 88	Fengar, E. W. ... 76	King Construction Co. 96	Penn the Florist. 88	Skidelsky, S. S. & Co. 74
Burnett Bros. ... 74	Ford, M. C. 92	Knoble Bros. 89	Pennock, S. S. Co. 73	Smith, Elmer D. & Co. 76
Burpee, W. A. & Co. 74	Froment, H. E. ... 92	Kraeschell Bros. 96	Pierce Co., F. O. 96	Smith, P. J. 92
Carter's Tested Seeds, Inc. 87	Galvin, Thos. F. 89	Kuebler, W. H. ... 92	Pierson, A. N. ... 73	Smith, W. & T. Nursery Co. ... 76
Chase, Homer F. 76	Gasser Co., J. M. 89	Kottmiller 88	Pierson, F. R. ... 73	Smith, The Florist 89
Childs, John Lewis 74	Graham & Son, A. 89	Kunderd, A. E. ... 84	Pulverized Manure Co. 95	Smith & Fetters Co. 89
	Grakelow, Chas. H. 89	Lemon Oil Co. ... 95	Randalls Flower Shop 89	Smyth, Wm. J. ... 89
		Liggit, C. U. 75		Stumpp, G. E. M. 88

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only be given when necessary as too much will sour the soil or bring on disease.

As soon as the plants are one foot high it is important that they be again stopped by pinching out the heads of the young shoots. This will produce a very full bushy growth and give much more satisfactory results than if they are only stopped once. From the time the buds appear, if the weather is warm, copious supplies of water may be given and liquid manure twice a week if possible. By growing tubs of sweet peas in this way it is a comparatively easy matter to have bushes seven to eight feet high and five to six feet in width and if the seed pods are promptly picked off a wealth of bloom may be had till late in the season.

Arthur. E. Thatcher

Mt. Desert, Maine.

Protest Sent to Secretary of Agriculture

The following telegram has been received under date of January 21st:

"At a meeting of interested parties of the trade held at the office of the S. A. F. and O. H. today, a brief prepared to be presented to the Secretary of Agriculture has been completed and will be submitted to the Executive Committee of the Society for its official approval at its meeting in Detroit on January 31st, after which action to secure a proper hearing at Washington on the plant import restrictions will be taken."

JOHN YOUNG, Secretary

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CONTENTS

	Page
GROWING SWEET PEAS IN TUBS—Arthur E. Thatcher—Illustrated	77
PROTEST SENT TO SECRETARY OF AGRICULTURE	77
SOCIETY OF AMERICAN FLORISTS—National Publicity Campaign—Meeting of Executive Board—Meeting of the Publicity Committee—A Correction.....	79-80
ARTHUR HERRINGTON AND OTHERS PROTEST QUARANTINE	80
OBITUARY—John H. Dillon, portrait—Conrad Frauentfelder—John H. Slocombe—Mrs. Augustus Gerstenberg—John Moore—James Horan—Thomas Poynter—Mrs. Patrick McGovern—James McCollom.....	81
CLUBS AND SOCIETIES—New England Nurserymen's Association, A. E. Robinson, portrait—Gardeners' and Florists' Club of Boston—Florists' Club of Washington—Westchester and Fairfield Horticultural Society—Tennessee State Florists' Association—Lancaster County Florists' Association—Nassau County Horticultural Society—Massachusetts State Vegetable Growers' Association—Convention of Fruit Growers—Albany Florists' Club—A Victory Meeting—Rochester Florists' Association.....	82-86
SEED TRADE—A. C. Kendel's New Seed Store, Illustrated—Notes	87
OF INTEREST TO RETAIL FLORISTS: Flowers by Telegraph—New Flower Stores.....	88-89
FLOWER MARKET REPORTS: Boston, Chicago, Cleveland, Cincinnati, New York, Rochester, St. Louis, Washington.....	91
LOCAL AND GENERAL NEWS: Chicago, Washington, Rochester, St. Louis, Boston	93
MISCELLANEOUS: News from Belgium.....	80
Valueless Gourds	80
Catalogues Received	87
Personal	89
Business Troubles	91
News Notes	94
Visitors' Register	95
New Corporations	95

The Holland nursery situation

Nursery production in Holland has been greatly reduced since the war began. Russia which had previously bought liberally in Holland was the first country cut off. Not only did she buy extensively roses, ornamental trees, shrubs and conifers for out-door planting but her purchases of forcing plants including lilacs, azaleas, deutzias, etc., had been enormous. Then Germany had been a large buyer, her purchases including aucubas, rhododendrons, hydrangeas, spiræas, clematis, etc. For the first two years of the war this trade continued in diminished volume, now it has ceased. England, Holland's best customer, had reduced her purchases to a mere fraction of her former demand. America had been looked to as the most hopeful field, which hope has now been banished by the recent embargo of the Federal Horticultural Board. Is it to be wondered at then that many of the nurserymen of Holland have pulled up and burned much of their nursery stock and prepared the ground for vegetable crops. The stocks of nursery material in Europe are now reduced to a lower level than for several generations and under all the adverse conditions now existing there is no telling when there will be any improvement.

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 Yet when you look with your eyes of blue
 Over them fondly with tender care,
 Surely my love will meet you there.

(Copyright, 1917, Benj. J. Brown.)

Notwithstanding the greatly diminished products in florists' standard flowers and other disturbing conditions which have operated in the conduct of business thus far this season, it is now very gratifying to see how rapidly increasing is the daily market supply of miscellaneous flowers which individually fill a comparatively unimportant place but collectively make an interesting and brilliant contribution to the contents of the store windows and ice chests and will fill their part in attracting the public eye and inspiring the heart to "Say it with Flowers." Particularly serviceable and appropriate for the sentiment of Valentine's Day are these little gems—these forget-me-nots, violets, pansies, daisies, sweet peas, primroses, daffodils, freesias, mignonette and many other dainty things that might be enumerated—and there is much in the situation this year, with its homecoming reunions and visions of domestic felicity unbroken by war's alarms. No day in the calendar has better claim to floral supremacy than has that devoted to the god of Love and nothing should be left undone by the florists to impress upon the people the sweet sentiment of the occasion and appropriateness of its widespread observance by gifts of the flowers of springtime. Of things appropriate to this day there will be an abundance and it does not appear that there will be any reason to fear prohibitive prices, so let us give it a good push and it will respond in proportion.

Did Dillon get his due?

The Mayor's Gate Column of the Boston Evening Record of the 21st inst. makes the following comment on the passing away of Capt. John H. Dillon formerly chairman of the Boston Park Commission:

The sun has set on the life of John H. Dillon, a man who loved Nature and her varying moods and who was a master hand at ornamental gardening. The former chairman of the Department of Parks and Recreations bore many crosses the past few years of his official life. He was loyal to his friends and forgetful of himself. He was extremely sensitive and reflections upon his administration cut him deeply. He did well by the city. It is to be questioned if the city did as well by him.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

NATIONAL PUBLICITY CAMPAIGN.

Among the many communications of a commendatory character received by our Promotion Bureau in the second week of the 1919 campaign, it is pleasing to notice those from the following:

G. E. M. Stumpp, New York: "Enclosed please find my cheque for \$300 in payment of my share for the 1919 Publicity Campaign to promote the sale of flowers. I consider it a pleasure to pay this bill, but feel that this act alone is not enough to make the campaign a success. Personal interest has helped immensely and accomplished more than anyone can tell. Our slogan, "Say it With Flowers" is now heard all over the United States, and the response has been wonderful. I feel that the funds have been judiciously spent, and I am more than satisfied with the results obtained in such a short time."

Wm. F. Kasting Co., Buffalo, N. Y.: "Could confidence in the campaign work be better expressed? "We enclose you herewith a cheque for \$200 to take care of our subscription to the National Publicity Campaign. We sent you a cheque for \$100 which took care of our 1919 subscription. The enclosed \$200 is to take care of our 1920 and 1921 subscriptions."

Nordall, Florist, Fort Dodge, Iowa: "It is a pleasure to mail you my cheque for \$10, doubling the subscription made to the Publicity Fund of the Society by the North Floral Co., which business I am conducting under my own name. There is no doubt in my mind but that the publicity work undertaken during the past year has made a wonderful change in flower sales throughout the entire country. When we take into consideration the fact that the majority of florists do practically no advertising, being content to take such custom as comes to them naturally, the raising of the Publicity Fund has meant no small task for the committees to undertake; and although my own contribution is not large, I do appreciate the work the committees have done and are doing."

Philip Breitmeyer, of John Breitmeyer's Sons, Detroit, Mich.: "I enclose herewith cheque for \$100 in payment of our subscription for 1919 as

per agreement. I realize that as the season advances, and if the work is kept up, it will be necessary to have further subscriptions, and I am sure that your "old reliable" can be looked upon for his share as the time goes on." It may be mentioned here that the subscriptions from this house in 1918 amounted to \$750.

G. E. Schulz, president of Jacob Schulz Co., Inc., Louisville, Ky. "I am pleased to enclose herewith cheque for \$25 covering our 1919 subscription to the Publicity Fund. There is no question but what every florist in the country has received some benefit through the National Campaign and all should contribute their mite."

The campaign for 1919 is well advanced. The 33 national magazines are carrying our slogan, "Say it With Flowers" to many millions of homes, with accompanying suggestions regarding the use of our products for gifts, for messages of sympathy to those in hospitals and sick room, birthday remembrances, weddings and other purposes.

Can you, Mr. Non-Subscriber, think for one moment that publicity such as this is not going to help your business, no matter where you are located? Have you, yourself, never forgotten a birthday you would have liked to observe with a floral tribute, an anniversary, a wedding, even the internment of a dear friend in hospital or sick room? And would you not have been pleased to get such a pertinent reminder as ours when turning over the pages of your favorite magazine? Of course, you would, so isn't it quite natural that the general public is equally interested? It is! Results last year proved it.

The florists whose communications we have published did not write those nice letters merely for the sake of excusing their contributions. They have realized to the full the great benefit of our publicity—and in his heart every florist who has not yet subscribed realizes it too. Then why the hesitation in the matter of a subscription? The money provided is not given away, it is simply invested in the interest of the subscriber, in a co-operative way. Such publicity cannot be purchased piecemeal, it is only ob-

tainable through co-operation and the organization which has been made possible through our committees.

We want more co-operation. We want to see a greater willingness to provide ammunition for our publicity guns—the intervals between firing should be short, and activity continuous. Now is the time to subscribe, when planning to the best advantage is possible.

Come over and help us—everybody.

The following subscriptions are recorded since our last announcement:

Annually for Four Years—H. E. Eberhardt, Schenectady, N. Y., \$5; Wild Bros. Nursery Co., Sarcoxie, Mo., \$5; Frank Mosmiller, Richmond, Va., \$10; Keeney's Flower Shop, Harrisburg, Pa., \$5; Henry Smith, Grand Rapids, Mich., \$25; George W. Evenden, Williamsport, Pa., \$5; The Avenue Floral Co., New Orleans, La., \$5; J. Henry Bartram, Landsdowne, Pa., \$30; J. W. Ross, Centralia, Ill., \$5; L. C. Stair, Mineral Park, Wis., \$5.

For One Year—Ernest C. Amling, Maywood, Ill., \$25; Bertemann Bros. Co., Indianapolis, Ind., \$50; Wm. J. Baker, Philadelphia, Pa., \$10; E. E. Hall, Clyde, O., \$5; A. T. F. Lawritzen, Eau Claire, Wis., \$5; I. V. Kinder, Charleroi, Pa., \$5.

Total, \$200.00.

Received through Florists' Telegraph Delivery Association—Special and additional subscriptions, one year only.

Thomas J. Gibson, Newport, R. I., \$10; Pikes Peak Floral Co., Colorado Springs, Colo., \$10; Joy Floral Co., Nashville, Tenn., \$25; Haentze Floral Co., Fond du Lac, Wis., \$5; E. E. Brown, Asheville, N. C., \$5; John V. Laver, Erie, Pa., \$5; Grohman The Florist, Saginaw, Mich., \$5; Winter Floral Co., Charleston, W. Va., \$10; Hembreiker & Cole, Springfield, Ill., \$5; J. W. Dudley's Sons Co., Parkersburg, W. Va., \$25; E. W. Gaehring, Philadelphia, Pa., \$5; Randall's Flower Shop, Worcester, Mass., \$10; Henry Bester & Sons, Hagerstown, Md., \$10; Kerr The Florist, Houston, Tex., \$15; C. E. Gunton, Bradford, Pa., \$10; Idle Hour Nurseries, Macon, Ga., \$5; Joseph Traudt, Canajoharie, N. Y., \$15; L. C. Stroh & Sons, Batavia, N. Y., \$5; Wettlin Floral Co., Hornell, N. Y., \$5; Smith's Flower Shop, Hutchinson, Kas., \$10; The L. Bomb Floral Co., Detroit, Mich., \$10.

Total, \$205. Total of both lists, \$405. Previously reported, \$26,905.50. Grand total, \$27,310.50.

MEETING OF EXECUTIVE BOARD.

Vice-President E. A. Feters has made arrangements for the meeting of the members of the Executive Board to be held at the Hotel Statler, Detroit, on Friday and Saturday, January 31st and February 1st, next. All who expect to be in attendance at the meeting should make hotel reservations early, by communicating with Mr. Feters, 17 Adams Ave., E. Detroit, Michigan.

PUBLICITY COMMITTEE MEETING.

The Publicity Committee and the

Publicity Finance Committee will meet in joint session at the Hotel Hollenden, Cleveland, on Thursday, January 30th. President J. F. Ammann will preside. All expecting to be present should make hotel reservations without delay, as the American Carnation Society will be in convention at the hotel at the same time.

JOHN YOUNG, Secy,

1170 Broadway, New York.

January 18, 1919.

A CORRECTION.

In the announcement of officers of the Society for 1919 under the heading "Directors under affiliation to serve one year," it should have read, Edwin A. Harvey, Brandywine, Summit, Pa., President Florists' Club of Philadelphia, instead of Alban A. Harvey, as published.

NEWS FROM BELGIUM.

A very interesting letter has just been received from F. Sander, Sr., St. Albans, Eng., from which we feel justified in making the following extract:

Our nurseries in Bruges are safe but the loss is terrible and the four years have taken from me forty years savings. My son Louis who is an officer in the army has had leave from the war office to go to Bruges and is there now and I am anxious to hear his report. At various times I have read your notes on the plant import after June to the United States. If a restriction came it would mean the utter destruction of the Belgium plant trade, and nearly all nurserymen would be ruined. Here, also, the suffering would be great. From England and Scotland great quantities of plants are exported to America.

My own place in Bruges, the largest nursery on the continent would also be ruined, thousands of American florists would suffer and the whole trade on both sides feel the great loss enormously. Surely azaleas, orchids, palms, roses, stove and greenhouse plants do not carry any disease with them which in any way would hurt plantations."

Loss estimated at about \$4000 was caused by fire at the Harwarth greenhouses, Farmington, Conn., leased by Leon Becker. Much of the loss comes from the destruction of thousands of plants, many of which were in bloom or about to bloom. Because of the fire the heating apparatus became inoperative, and the plants in the unburned sections of the greenhouses perished from cold.

ARTHUR HERRINGTON AND OTHERS PROTEST QUARANTINE

The following letter to Senator Joseph S. Frelinghuysen is self-explanatory. Mr. Herrington and many others in the flower trade have written protests to their representatives against the quarantine.

Senator J. S. Frelinghuysen,

Washington, D. C.

Honorable Sir:

I have just received from the U. S. Department of Agriculture a copy of Notice of Quarantine No. 37 with regulations and write you to express my most emphatic protest against the drastic and discriminatory character of the same.

To me it is inconceivable that a few men should be permitted to exercise such sweeping powers and to promulgate and enforce a restriction at once needless and unfair.

The order as it stands today and which becomes operative on and after June 1 next, abounds in glaring inequalities I might almost say imbecilities so far as some of the conditions therein expressed are concerned. For example, the admitting of stocks and wild species of roses to be used in this country for grafting thereon choice varieties of roses, and yet actual rose plants of varieties raised in European countries and of which new and improved varieties are continually being raised, are denied to the country.

There is an old moss grown joke about the man who killed his dog to cure him of fleas and the action of the Federal Horticultural Board regarding roses is about as sensible.

Imagine, too, the total exclusion of orchids. They are denizens of tropical countries and under cultivation must always be kept in greenhouses. I wonder what terrible calamity the members of the Federal Horticultural Board pipe-dreamed of when they excluded these choicest and rarest of "Florals" creations. These are just casually selected subjects to show the unfair discrimination I complain of.

I could enumerate others but do not wish to write you at wearisome length, yet I must cite one more point which seems to indicate a queer sort of patriotism if there be any at all in the hearts of the members of the Federal Horticultural Board.

Lily of the valley is one of the permitted introductions under the new quarantine order. The roots of this flower are imported annually in millions by florists for forcing purposes and the true and actual source of all

of this special forcing lily of the valley stock is Germany. Contrast this concession with how the Federal Horticultural Board has treated poor devastated Belgium. For years and years before the war Belgium sent us bay trees, azaleas, palms, rhododendrons, Norfolk Island pines and many other products in larger quantity and of better quality than any other country in the world. These are highly-developed specialties of the Belgian trade. We cannot produce them here so it is not a question of protecting home industries, yet just when Belgium is ready to make an effort to supply us with things we have not had and have sadly missed in the past four years the Federal Horticultural Board says they shall not be permitted entry to the country under any conditions.

The object sought by the Department of Agriculture through this quarantine regulation, namely, the exclusion of possible pests and disease does not, in my opinion, having considerable knowledge of the facts, warrant this extremely drastic action.

Yours truly,

ARTHUR HERRINGTON.

January 15, 1919.

VALUELESS GOURDS

Department of Agriculture officials again warn farmers and gardeners not to be fooled by extravagant claims in advertisements of two varieties of edible gourds, long known but little grown in this country, which are treated in the advertisements as "butter beans" of rare quality and high productivity. Vague but glowing and extravagant claims are made for them.

The food value of these gourds is similar to that of summer squash, according to department officials, and they are interesting as curiosities, but have slight practical worth.

The name, Gigantic New Guinea Butter Bean, has been loaded onto the Cucutza or sweet gourd. It is frequently found in Italian vegetable gardens and is offered in the markets of New Orleans, but is considered of such little value that seedsmen rarely give it notice. It has been reported to the department that this so-called new bean has been offered at extravagant prices, for example, 6 of the gourd seeds for 50 cents, or 16 for \$1.

The Snake or Solomon Island Gourd also has been renamed in certain advertisements as Guada Bean. This gourd can be grown only in warm climates and is adapted to rather limited regions in the southern part of the United States.

Obituary

John H. Dillon.

John H. Dillon, for many years connected with the Park and Recreation Department of Boston, and during Mayor Curley's administration chairman of the Park Board, died on Sunday morning, January 19th, at his home in Dorchester, of pneumonia and a disordered heart. He was sixty-three years old, and leaves a widow and two stepchildren, also a brother, James, who has been for many years prominently identified with the planting and landscape department of Swan Point Cemetery, Providence, R. I.

Mr. Dillon was born in Dorchester, the son of Mr. and Mrs. James Dillon. His father was a gardener in charge of a prominent estate in Dorchester, and the young man, got his first rudiments of horticulture through employment under his father. At the age of about sixteen he was associated with Wm. J. Stewart in the employ of W. C. Strong & Co., who had a large retail flower business on Beacon street, Boston. From there he entered the employ of the city of Boston under the late Superintendent Doogue of the Park Department. Supt. Doogue put Mr. Dillon in charge of the public gardens, and during the remainder of the year he was in charge of the greenhouses of the department. After serving as foreman for a few years he was offered a more lucrative position at the Forest Hills Cemetery which he accepted and served there for five years after which he resigned and returned to take up his duties again with the city under Supt. Doogue. Again he resigned and associated himself with the firm of William S. Ewell & Son, which made a specialty of growing Dutch bulbs, and when he acquired an extended knowledge along this line he again re-entered the city's employ. At the death of Mr. Doogue, he was placed in charge of the public garden.

When Mayor Curley became chief executive, he appointed Mr. Dillon chairman of the Park and Recreation Board to fill the unexpired term of D. Henry Sullivan, who had been removed by Mayor Curley. On May 10, 1916, Mayor Curley named Mr. Dillon for re-appointment, but the Civil Service Commission failed to confirm it, and later on after the election of Mayor Peters, Mr. Dillon handed in his resignation after having been in the service of the city for more than forty years. During the past year he has been in failing health and has been inactive.

Conrad Frauenfelder.

In the death of Conrad Frauenfelder Jan. 19th, after a brief illness, Chicago loses one of its pioneer retail florists.

Born in Switzerland sixty-two years ago next May, Mr. Frauenfelder came to this country and started in the greenhouse business in a very small way at 3343 W. Madison street, a place then far from the business district. With the growth of the city his place has come to be part of a high class business section which adjoins Garfield Park. The large double store which is now used to carry on the trade he has built up is a monument to Mr. Frauenfelder's close application and fair dealing. He was universally respected and while he devoted his time so closely to home and business that he could not regularly attend the



CAPT. JOHN H. DILLON.

florists' gatherings, he was a member of the Society of American Florists and of the Chicago Florists' Club.

Mr. Frauenfelder leaves a wife, a daughter Miss Edna, who was associated with him in the business and who will now take charge of it, a little daughter Hazel, and a brother Fred, a landscape architect from Pittsburg, Penn.

The funeral was held Jan. 22nd at 1.30 from the West Chicago Masonic Temple, 12 Oakley Boulevard, under auspices of Chicago Commandery 19 K. T. Masonic service 3 p.m. previous to which the body lay in state one hour.

Interment was at Forest Home Cemetery.

John H. Slocombe.

John H. Slocombe, a well-known dahlia specialist of New Haven, Ct.,

died at his home on Jan. 11th, aged 74 years, after an illness of about a year. He was a native of Devonshire, Eng., coming to this country in 1873. He was formerly in the employ of Robert Veitch, New Haven, following which he held a position of gardener on a private estate for seventeen years. He has been in the dahlia business since 1899. He is survived by a widow and three sons, also four sisters and one brother.

Mrs. Augustus Gerstenberg.

Mrs. Augusta Gerstenberg passed away at her home in Washington, D. C., last week, following a paralytic stroke. The deceased was the wife of Ernst Gerstenberg, a member of the Florists' Club of Washington, D. C. Mr. and Mrs. Gerstenberg came to the United States about thirty-five years ago. They have been spending a great deal of time at their place at Suitland, Md.

John Moore.

John Moore, of Little Silver, N. J., who owned a greenhouse business, died on January 10, after a long illness, at the age of 67 years. He was born in Glasgow, Scotland, but had lived in Little Silver for over forty years. He is survived by a widow and two children.

James Horan.

James Horan, son of the late James Horan, of the firm of James Horan & Son, Bridgeport, Ct., died recently of pneumonia. He is survived by his wife and two sons, also his brother, Stephen Horan.

Mrs. Patrick McGovern.

Mrs. Patrick McGovern, widow of the well-known florist of Brooklyn, N. Y., died at her home in Brooklyn on Jan. 7th.

James McCollom.

James McCollom, for many years superintendent of parks of Paterson, N. J., passed away on January 2d.

Thomas Poynter.

Thomas Poynter, a Brooklyn florist for forty years, died on Sunday at his home, 40 South Elliott Place, Brooklyn, aged 88 years. Mr. Poynter was born in England.

Hartford, Conn.—Fire starting in the boiler room of the greenhouse belonging to Andrew W. Welch at 31 Annawan street did considerable damage Monday night, Jan. 13.

CLUBS AND SOCIETIES

NEW ENGLAND NURSERYMEN'S ASSOCIATION.

The eighth annual convention of the New England Nurserymen's Association will take place in Boston on January 28th and 29th. Contrary to what was formerly announced, the place of the meeting will be the New American House instead of the Hotel Bellevue. This change became necessary so that we might have a suitable place for Mr. McFarland's lecture.

The report of the Executive Committee will be one of the features of the routine business. This report will contain a brief outline for making our Association strong and more effective. We expect that the report of the Membership Committee will show a large increase in membership.

Under the discussions the subjects of "quarantine regulations" and "market development" will receive the greatest attention. Mr. William H. Judd's paper on "New ornamentals of real merit for New England" will be particularly comprehensive. Mr. Judd's position at the Arnold Arboretum and his experience there and elsewhere gives him a right to speak authoritatively on such matters.

A subject of great interest at the present time will be discussed by Mr. Wm. W. Colton, city forester of Newton, Mass. His paper, entitled "Living Monuments for Our Soldiers," will discuss the advisability of planting trees as memorials and advise the proper sorts to plant.

Beginning with this convention this Association will have started an innovation which I trust will be continued at each annual convention. That is, an illustrated lecture free to the general public which will deal with some facts on the beautification of New England by means of planting. It is purposed to have these lectures given by the best authorities in the country. The first lecture will be by J. Horace McFarland of Harrisburg, Pa., President of the American Civic Association. Mr. McFarland will not deal with any particular class of plants but will consider the use of plants in a general way. To quote a paragraph from a recent letter of his in which he discusses the subject of his lecture, he says:

"The thought that is prominently in my mind is that the modern tendency has been to make our gardens chromos instead of pictures, each being an imitation of another rather than a de-

velopment of individuality. Moreover, there has not been that fine thought of combination in effect which ought to be a part of the consideration. It seems to me that a garden which does not include trees, shrubs, perennials, dahlias, gladiolus, and cannas, for example, in the broad effect in mind, is likely to be weak. The customer is frequently quite ignorant and he needs suggestion and help from the informed standpoint. If he gets it he will buy more stuff, and that is the basis of market development."

All persons connected with the nursery trade and representatives of the various horticultural societies are cordially invited to be present.

Program.

Tuesday, January 28th, 1.30 p. m.—Roll Call of Members; Reading Minutes of Last Meeting; President's



A. E. ROBINSON,

President New England Nurserymen's Association.

Address; Annual Reports. Committee Reports—Executive, Membership, Legislation, Publicity. Appointment of Special Committees. Discussions—Transportation, Charles Adams, Springfield, Mass.; Quarantine Regulations, F. S. Baker, Cheshire, Conn.; New Laws Effecting Nurserymen, Curtis Nye Smith, Boston, Mass.; Market Development, F. F. Rockwell, New York.

6.00 p. m.—Annual Dinner.

8.00 p. m.—Public Meeting, illustrated lecture by J. Horace McFarland, Harrisburg, Penna. (President American Civic Association).

Wednesday, January 29th, 10.00 p. m.—Are We Growing Enough High-grade Ornamentals?, E. J. Canning, Northampton, Mass.; New Ornamentals of Real Merit for New England," William H. Judd, Boston, Mass.; Should Growers of Ornamentals Specialize More?, Ernest F. Coe, New Haven, Conn. Are Nurserymen Receiving Enough for Their Products?, Harlan P. Kelsey, Salem, Mass.

2.00 p. m.—Living Monuments for Our Soldiers, William W. Colton, Newton, Mass.; The Nurserymen's Outlook for 1919, C. H. Greaton, Providence, R. I.; Question Box, conducted by W. H. Wyman, No. Abington, Mass.; Election of Officers; Report of Special Committees; Adjournment.

R. M. WYMAN, Secy.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The regular monthly meeting of the Club was held at Horticultural Hall, Boston, Tuesday evening, January 21, 1919, at 7.30 o'clock.

The newly elected officers were installed at this meeting and made short addresses. The annual reports of the Treasurer, Secretary and Executive Committee were read. In keeping with previous January gatherings there was no regular lecture on this occasion, but after regular business had been disposed of a short entertainment followed by a collation and dancing.

The Club unanimously voted at a previous meeting to hold a Victory Banquet, and the Executive Committee have arranged to hold the same at Horticultural Hall on Wednesday evening, February 26, 1919, at 6 o'clock. Tickets are \$2.50 each and may be had from any of the officers and a number of the members.

The State Department of Agriculture will hold a series of lectures and discussions in connection with which there will be attractive exhibits, in Horticultural Hall, during the week commencing February 9. This Club is co-operating in this work and there will be one lecture of special value to horticulturists to be given by Mr. W. H. Elliott of Brighton. Further details of these lectures will be found in the daily press.

The Club will hold its annual Carnation Night on February 18, and hopes that members will reserve some ex-

hibits for this date and help to make it even more attractive than in former years.

W. N. CRAIG, Secy.

FLORISTS' CLUB OF WASHINGTON

"What does it cost to raise a crop?" This was the question discussed at the meeting of the Florists' Club of Washington, in connection with a letter from the S. A. F. suggesting the appointment of a committee to obtain data that would enable the club to furnish a report on the "Cost of Production." This problem brought out the ideas of many of the members present as to efficiency in crop production. It was declared that it would be rather a difficult matter to get figures that would mean anything, in view of the difference in costs of the various raw materials as between different localities and different concerns. There is also a big difference in labor costs, and no two men will produce the same crop in the same way. The discussion was considered one of the most important yet brought before the Club and it was decided to postpone action thereon, pending a better attended meeting. The members were given an opportunity to view some exceptionally fine white lilacs displayed by I. Wessel Staalsman, of Oakton, Va.

THE WESTCHESTER AND FAIRFIELD HORTICULTURAL SOCIETY.

The monthly meeting was held in Greenwich, Conn., Friday evening January 10. Retiring president P. W. Popp introduced the officers for 1919. Mr. Graham thanked the members for the honor of being elected president. Awards were made to exhibitors as follows: Carnation Laddie from W. Graham, 1st, Euphorbia jacquinaeflora, James Stuart, 2nd, vegetables from Robert Williamson 1st. A very interesting paper was read by Maurice Fuld. Mr. Fuld said that wages of the complete gardener, the man that has served his apprenticeship and is capable of taking charge of a moderate sized estate should be from \$150 to \$200 a month with a house and all necessary extras.

JACK CONROY, Corr. Sec.

TENNESSEE STATE FLORISTS' ASSOCIATION.

The arrangements are completed for the Annual Convention of the Tennessee State Florists' Association to be held at the Hermitage Hotel, Nashville, Tenn., on January 28th, 1919. From the long list of exhibitors, and the floral accessories firms from all

FERN SEEDLINGS IN FLATS

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The prospects now are that there will be no surplus of Fern Seedlings for the coming season. We are now bookings orders for delivery after June 1st. You will make no mistake in anticipating your requirements by placing your order now.

These flats contain about two hundred plants each, only one variety being in a flat, and we cannot supply less than a full flat of any one sort.

Adiantum Cuneatum	Pteris Grandis
Aspidium Tsussinense	" Magnifica
Cyrtomium Fortunei	" Mayii
" Caryotidium	" Multiceps
" Rochfordianum	" Ouwardii
Lastrea Chrysoloba	" Rivertoniana
Onychium Japonicum	" Serrulata
Pteris Adiantoides	" Cristata
" Alexandrae	" Tremula
" Argyraea	" Victoriae
" Cretica Albo Lineata	" Wilsonii
Pteris Wimsetti	

Any of the above varieties at \$2.00 per flat. We cannot supply less than a full flat of a variety.

We also offer a limited stock of Adiantum Hybridum and seedling plants of Polypodium Mandaianum in flats at \$3.00 per flat.

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CALIFORNIA

parts of the United States and the reservations made at the headquarters for rooms for members and visitors the success of the Convention is now assured. The Proceedings, the Floral Journal, of the State Organization is ready for distribution at these meetings.

The program is as follows:

Morning session 10.00 a. m. Call to order by President Oscar Geny, Nashville; Invocation, Rev. T. C. Ragsdale, Nashville; Minutes of the last meeting Prof. G. M. Bentley, Secretary-Treasurer, Knoxville; Proposals of Membership; Deferred Business; Reports of Committees; New Business; Bills and Communications; Nominations; Address of Welcome, Hon. Wm. Gupton,

VIBURNUM PLICATUM
Also Berberis Thunbergii, Hydrangea
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Ask for complete list of
OAK BRAND SHRUBS.

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MADISON, N. J.

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The oldest and best established journal for nurserymen. Circulation among the trade only. Published monthly. Subscription price \$1.50 per year. Foreign subscriptions, \$2.00 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
HATBORO, PA.

Mayor of Nashville, and A. J. Dyer, President Commercial Club, Nashville; President's Annual Address; Can we assist each other in the matter of securing and holding expert help? H. G. Bramm, Bristol; How can we develop landscape work throughout the smaller cities and towns? W. N. Kessler, Birmingham, Ala.

Afternoon session 2.00 p. m. Election of Officers; Growing Plants, C. H. Tritschler, Sylvan Park, Nashville; "Mums" Charles H. Totty, Madison, N. J.; The South and the part she will play in the future flower market, R. C. Kerr, Houston, Texas; Can we in combination arrange to purchase a satisfactory line of pots and save money? T. H. Joy, Nashville; Making our home surroundings more beautiful, Mary B. McGowan, Nashville; Seedling carnations, Rolfe F. Smith, Nashville.

Evening session 7.30 p. m. Why all retail florists should become members of F. T. D., Karl P. Baum, Knoxville; Round table in charge of members.

G. M. BENTLEY, Secretary-Treasurer.

LANCASTER COUNTY FLORISTS' ASSOCIATION.

Thursday, Jan. 16th, a joint meeting of the Association and the Ladies' Auxiliary was held in the rooms of the Chamber of Commerce. After the routine business was gone through with remarks were called for from those members who attended the Publicity meeting in Philadelphia. Mr. Harry K. Rohrer said that we were all impressed with the good features of the work done and the necessity of it for the future and added that he thought it would be a good thing if every one interested in the business would give one cent out of each dollar received during the year, that this would be an infinitesimal tax in proportion to what other businesses are doing and yet would bring in a good working revenue for the Publicity Committee.

B. F. Barr said that he fully realized the benefits of the publicity of the past year and that no doubt much more would be accomplished in the year to come, that his business has shown a steady increase each month since April, and that the business was not due to the conditions prevalent in the fall. He also stated that he was going to double his subscription of the past year.

A. M. Herr remarked on the enthusiasm that was shown at the Philadelphia meeting and was sorry there were not more of our members in attendance as he believed that could they have heard the history of this

work and the outlines for the coming year that the Club would come forward with a good big subscription, and he was going to give all the members a chance to subscribe within the next sixty days.

President Elmer Weaver vouched for all that had been said and added that he believed in the moral of Therkildson's story and that the important part was to get the money for this work first. He insisted that no grower, no retail man, no supply house, no one connected with this business could afford to stay out.

The visiting committee announced a trip to Strasburg for the February meeting, which occurs on Feb. 20th.

The following committees were appointed:

Programme—B. F. Barr, Chas. M. Weaver and M. J. Brinton.

Membership—Chas. B. Herr, Ira Landis and Rutter Hess.

Visiting—H. K. Rohrer, Lemon Landis and W. B. Girvin.

Exhibition—A. K. Rohrer, Rudolph Nagle and J. Wade Galey.

President Weaver then turned the meeting over to Mrs. Albert M. Herr, president of the Ladies Auxiliary, who read a very interesting paper on War Gardens, giving her experience in Philadelphia, Pittsburgh and other cities as a member of the Emergency Aid, and asked for a discussion as to the relation between the war gardens and the florists' business.

D. J. Keohane, of the Henry F. Michell Co., said that they had a good market for vegetable plants, but that the profits for the ordinary greenhouse man were nothing extraordinary. B. F. Barr said that the retail man had to carry vegetable plants to accommodate his customers and that the war gardens helped increase the demand so that they made an important addition to the spring's business. Some of the growers who attend the local markets find them a profitable side line, but those who attempted them as a wholesale proposition will have none this season.

Mrs. B. F. Barr, Mrs. A. K. Rohrer and Mrs. Herr had arranged around the room a series of cuts from national and local advertising and a guessing contest was entered into that created much amusement and sociability. The President reconvened the meeting and the ladies were given a rising vote of thanks for their participation in making this meeting the success it was.

ALBERT M. HERR.

NASSAU COUNTY HORTICULTURAL SOCIETY.

The regular monthly meeting of the society was held in Glen Cove on



This is the coming florist early all white forcing Gladiolus. We have no stock to offer to the trade this season, but will have a small surplus this coming autumn. If you want an ideal florist all white Gladiolus, send us your address and we will mail you our trade circular when issued.

A. E. KUNDERD
GOSHEN, IND.

Wednesday, Jan. 8th. Thos. Henderson, Wm. Carter and Thos. Twigg were the judges for the monthly exhibits. The following awards were made:

Exhibition, 6 ears of field corn, 1st, Wm. Milstead. A beautiful vase of Carnation Laddie exhibited by John F. Johnston was awarded a certificate of culture.

A letter of sympathy was sent to Alex McKenzie, one of our members who has recently lost his wife, and also to the widow of our late honorary member, Theodore Roosevelt. All present stood at attention in token of respect and esteem. This society was honored in having such a great man as one of its members and words fail in expressing the loss we feel. The president presented the National Association of Gardeners' medal to Robert Marshall for the most meritorious exhibit at the

fall show. An interesting essay was read by Ernest Westlake, entitled "The Gardener and His Recompense," written by M. C. Ebel. A short discussion followed and a vote of thanks was ordered sent the author. Several of our members in the service were heard from and all are looking forward to the time when they can rejoin us. Competition for our next meeting to be held on Wednesday, February 12th, are 50 Single Violets, 25 carnations and 1 pot of cyclamen.

HARRY GOODBAND, *Cor. Secy.*

MASSACHUSETTS STATE VEGETABLE GROWERS' ASSOCIATION.

The second annual meeting of the Massachusetts State Vegetable Growers' Association will take place at Horticultural Hall, Boston, February 12. The Boston Market Gardeners' Association are to join with this meeting. Come and meet with the other growers to make a strong state-wide association. A plan will be presented to include all members of local associations through their own organizations. This association can be particularly valuable to men who do not live in gardening sections and are not members of local associations. It will join their efforts with their fellow business men to bring about needed changes, keep them informed on new developments, afford them the protection that united effort well directed, always offers.

The program of the day, Wednesday, is as follows:

10.30 a. m. Lower lecture hall, business meeting, election of officers, reports of committees, new business, etc. An address by President J. Winthrop Stone on the opportunities and duties of a State Association. Discussion on the question of adopting the Providence size for the Boston bushel box. (This question has been placed on the program at the request of Worcester growers). Suggestions and discussion from the floor on problems for the State Association in 1919. What the agricultural college has done and is planning to do for vegetable growers.

(a.) General policies. Field work and the Market Garden Field Station. By H. F. Thompson.

(b.) Work at the college and teaching market gardening. By Arthur L. Dacy.

1.45 p. m. Main Lecture Hall—Meeting combined with State Fruit Growers' Association. Moving picture—Garden operation.

2.00 p. m. What a Co-operative Farmers' Exchange has done to handle locally grown products. Porter R.

FOUR NEW GIANT STOCKS

GREENHOUSE SAVED SEED

LENOX PINK
LENOX WHITE

LENOX MAUVE
LENOX PURPLE

Each color separate. Tr. pkt. 25c.; $\frac{1}{8}$ oz. \$1.25

The LENOX STOCKS are great improvements on the Beauty of Nice Strain. They bloom in four to five months from sowing and under good cultivation, (disbudded), attain a height of $2\frac{1}{2}$ to 3 feet, producing a gigantic flower spike bearing beautiful large double flowers, the actual seed offered above has produced as much as 85% doubles.

Arthur C. Boddington Co., Inc.

128 Chambers Street *Seedsmen* NEW YORK CITY

Taylor, General Manager of the Providence Farmers' Exchange.

3.30 p. m. Discussion. Taking the risks out of farming. Elbert S. Brigham, Commissioner of Agriculture, State of Vermont.

6.30 p. m. Grand Union Banquet at Ford Hall. Fourteen leading Agricultural and Horticultural organizations united. Speakers of national reputation. Splendid Banquet, served country style, \$1.75 per plate. Tickets to be purchased in advance from the various association secretaries.

There will be a big diversified trade exhibit, a cow show, a dairy show, pork and poultry products, fruit, flowers, trees and shrubs, and of most interest to vegetable growers, a competitive, state-wide vegetable show, unique in character and with \$150 in prizes, given by the State Department of Agriculture.

Henry H. Howard of West Newton, is secretary of the State Association and Arthur P. Wyman of Arlington is secretary Boston Market Gardeners' Association.

CONVENTION OF FRUIT GROWERS.

The joint convention of the Western New York Horticultural Society and The New York State Fruit Growers' Association was held Jan. 15, 16 and 17. Many notable men gave stirring addresses after which discussions followed. The meetings were well attended. Thomas P. Gore, blind senator from Oklahoma, addressed the organization. Officers were elected as follows: President, U. P. Hedrick, Geneva; 1st vice-pres., Harry E. Wellman, Kendall; 2nd vice-pres., Fred W. Cornwall, Pultneyville; 3rd vice-pres., T. C. Cross, La Grangeville, 4th vice-

pres. Harry L. Brown, Waterport; secretary-treasurer, E. C. Gillette, Penn Yan; treasurer permanent fund and trustee special fund, B. G. Bennett, Rochester; executive committee, B. D. Van Buren, Niverville, Geo. W. Dunn, Webster, C. K. Scoon, Geneva, W. P. Ten Broeck, Hudson and Geo. Stahler, Lockport.

This session of the United Horticultural Societies marks the passing from official relations of John Hall who for thirty years has been the able and devoted secretary of the Western N. Y. Horticultural Society. He has labored with the able men of the past and present who with him have been the builders and supporters of this organization, perhaps the ablest and most influential that has enlisted in a similar field in the United States. The service he has rendered has been a service of the heart, faithful, devoted, elevated in character and wise in methods. We trust that during the years that may be allotted to him which we pray may be many, his kindly face and inspiring spirit of cheer and optimism may not be missed from our meetings and we now pledge to him our continued friendship and interest in his welfare.

ALBANY FLORISTS' CLUB.

The January meeting of the club was enlivened by a discussion of the prohibition of horticultural imports by the Federal horticultural board. The result was a vote to send a petition to the Congressional representative from the Albany district. The petition was signed by all present and a committee was appointed to present the matter to the Hon. Martin H. Glynn, ex-governor of the state. Following the meeting, the annual dinner was enjoyed, about forty members and friends being present. Included in the

latter were J. J. Karins and Stephen Green of Philadelphia and M. M. Cohen of New York. It was a very enjoyable occasion.

A VICTORY MEETING.

The annual meeting of the American Carnation Society in Cleveland, January 29 and 30, will be one of the most important gatherings in the entire history of that organization. It is to be pre-eminently, a get-together affair. To the particularly great interest in the carnation at present, due in part to the higher values, is added the natural inclination of the trade to assemble with their fellows in fitting celebration of the victorious ending of the war. That the attendance shall be unprecedentedly large is the general prediction. In the past the east has been the greatest influence at these conventions. There is strong probability that the middle west shall assert its importance at the Sixth City meeting. And the happy union of these two great sections cannot but result in an epoch-making event, both in point of exhibition and attendance. There should be not only a large and splendid exhibit of flowers at this convention, but so strong and unmistakable expression of good will from the assembled trade, that the event shall forever live in the annals of the American Carnation Society as "The Victory Meeting."

ROCHESTER FLORISTS' ASSOCIATION.

Rochester Florists have joined florists in all parts of the country in protesting against the bill prohibiting the importation of plants, shrubs and bulbs. At the meeting this week vigorous protests were voiced. James J. Karins of Philadelphia was the speaker. He pointed out the various ways in which the new law would affect the trade.

The association went on record in condemnation of the bill and voted to send its protest to Congress in the form of resolutions. The following officers were elected: president, Harry E. Bates; vice-president, George T. Boucher; secretary, A. H. Secker; treasurer, James Sproat. The members presented Hubert B. Stringer, retiring president with a pair of cuff links. Mr. Stringer served as president for two years.

The following officers were elected at the last meeting of the Paterson Horticultural Society of Paterson, N. J., to serve for the ensuing year: President, Joseph M. Ackermann; vice-president, Chas. E. Walker; secretary, Andrew N. Gardener; treasurer, Sebastian Hubschmitt.

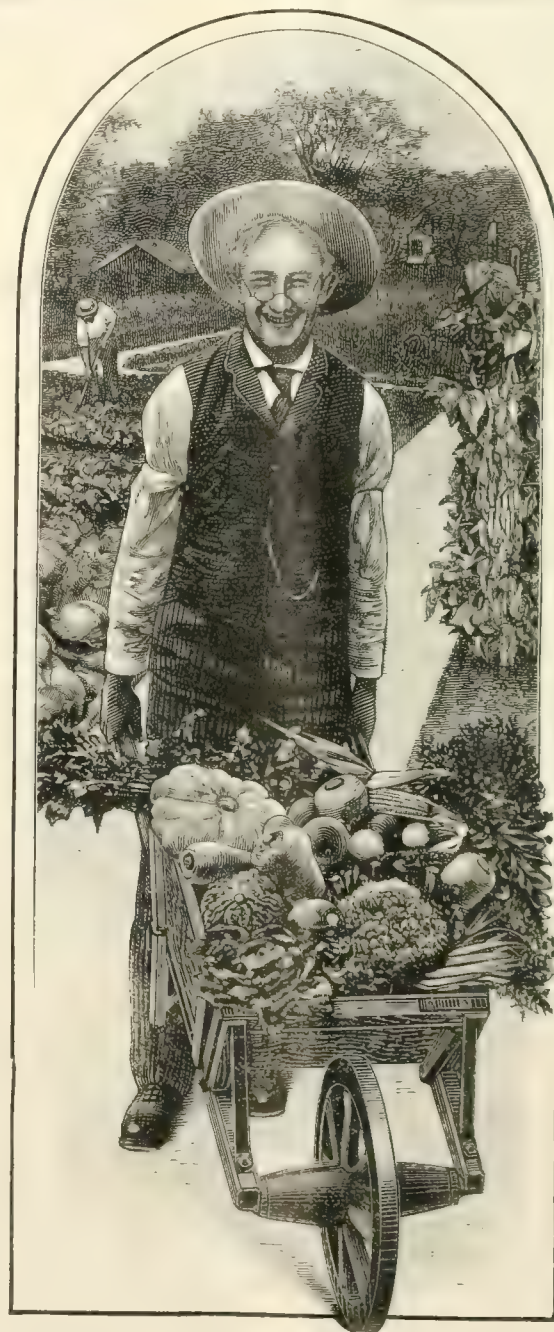
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Free on application to those who grow for sale.

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CATALOGUES RECEIVED.

C. W. Brown & Son, Ashland, Mass.—1919 Catalogue and Price List of Gladiolus bulbs. An excellent list.

Howard M. Gillett, Lebanon Springs, N. Y.—The Gladiolus Beautiful. A price list of gladiolus bulbs of choice grade.

Chas. G. Curtis Co., Callicoon, N. Y.—Spring and fall wholesale price list of hardy native trees and flowering shrubs.

Holmes Seed Co., Harrisburg, Pa.—Handbook of seeds and everything for the garden for 1919. Extensively illustrated.

J. J. H. Gregory & Son, Marblehead, Mass.—“Gregory's Honest Seeds for 1919. An attractive and creditable seed catalogue.

F. J. Grootendorst & Sons, Boskoop, Holland.—Wholesale price list of conifers and ornamental deciduous trees and shrubs for hardy planting.

Jackson & Perkins Co., Newark, N. J.—January, 1919, Circular of wholesale prices to the trade only. Quite an extensive list of shrubs, ornamental and fruit trees.

W. E. Marshall & Co., New York City.—Marshall's Seeds, 1919. A well printed and nicely displayed catalogue of flower and vegetable seeds, garden sundries, tools and requisites.

J. Bolgiano & Son, Baltimore, Md.—Annual seed catalogue for 1919. A well arranged and handsomely illustrated catalogue, fully up-to-date in style and variety, and with colored plates in good effect.

Wm. Henry Maule, Philadelphia, Pa.—Maule's Seed Book for 1919. Hand-some engravings throughout and a colored plate of Giant Branching Asters. “Success” Tomato occupies the back cover page.

Weeber & Don, New York City.—Annual Seed Catalogue for 1919. Weeber & Don have a new slogan, “Plant Sturdy Seeds.” This catalogue tells about them in a very practical and impressive way. Vegetables on front page and nasturtiums on the back page are shown in natural colors.

Peter Henderson & Co., 35 Cortlandt St., New York City.—“Everything for the Garden.” Very well named, for no more comprehensive catalogue of seeds, bulbs, implements, etc., is issued on the continent. The arrangement of the pages is very concise and the amount of information included in specified pages in this catalogue shows well-applied ingenuity. Besides innumerable illustrations,

Farquhar's Giant Cyclamen

Awarded the Gold Medal of the Massachusetts Horticultural Society

Farquhar's Giant Crimson-

scarlet 100 seeds \$2.25

Farquhar's Giant Salmon 100 seeds 2.00

Farquhar's Giant Crimson

Farquhar's Giant Pink

Farquhar's Giant White

Farquhar's Giant Blood Red

Farquhar's Giant Excelsior

Each of the above 100 seeds \$1.75

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“Seeds with a Lineage” All Varieties

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there are several full-page plates of flowers and vegetables in colors. The

book contains 184 pages and the covers are especially attractive in gold embossed pictures of attractive and suggestive character.

SEED TRADE NOTES.

W. W. Johnson & Sons, Ltd., Boston, Eng., have placed at the disposal of the Belgian Government five thousand dollars' worth of seeds for distribution among the Belgian farmers and gardeners.

The price of clover seed, received by producers, has more than doubled in two years. In Ohio, an important producing State, farmers were receiving \$9.25 a bushel November 15, 1916, \$13.30 a year later, and \$20.50 in the same month in 1918.

John Samtman, of George Samtman & Son, flower growers, Hatfield, Pa., was injured in the train wreck in which a dozen people were killed near Fort Washington on the 13th inst. He suffered a compound fracture of the left ankle, back burned and face lacerations. He was taken to the Jewish Hospital in Philadelphia.



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to any of the firms whose address is
here given will be promptly and prop-
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Albany, N. Y.—The Rosery, 23 Steuben St.
Albany, N. Y.—Danker.
Bangor, Me.—Adam Sekenger, 32 New-
bury St.

Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn the Florist, 124 Tremont St.
Brooklyn, N. Y.—Wilson, 3-5 Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.
Cambridge, Mass.—John McKenzie, 1927
Mass. Ave.

Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.

Cleveland, O.—Knoke Bros., 1836 W. 25th
St.

Cleveland, O.—The Smith & Fetters Co.,
735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643
Broadway.

Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.

Elizabeth, N. J.—Leahy's, 1169 E. Jersey
St.

East Orange, N. J.—Smith, The Florist.

Fall River, Mass.—Warburton, 495 New
Boston Rd. and 36 N. Main St.

Fishkill, N. Y.—Wood Bros.

Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.

New Haven, Conn.—J. N. Champion &
Co., 1026 Chapel St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.

New York—Dards. N. E. corner 44th St.
and Madison Ave.

New York—G. E. M. Stumpp, 761 Fifth
Ave.

New York—Kottmiller, 426 Madison Ave.
and 49th St., also Vanderbilt Hotel.

New York—Max Schling, 785 Fifth Ave.

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440 Main St., Buffalo, N. Y.
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Stock and prompt deliveries in BUFFALO,
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Clinton Ave. N.

St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.

Worcester, Mass.—Randall's Flower Shop,
22 Pearl St.

New York—Thos. F. Galvin, Fifth Ave.,
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NEW FLOWER STORES.

San Jose, Cal.—C. C. Navlet Co.

Little Rock, Ark.—Kirby Flower
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Bridgeport, Ct.—John Reck & Sons,
branch store, Golden Hill and Main
streets.

Windsor, Ont.—Miss Lucretia J.
Bamford, succeeding G. H. and Emma
Emery.

Cleveland, O.—Joseph Skuillaciot,
formerly with The Friedley Company,
under the name of Cedar Flower Shop.

PERSONAL.

The engagement of Miss Harriet
Isabel, daughter of Harry G. Eyres,
the Albany florist, and F. Leigh Hitch-
man, of Little Falls, has been an-
nounced.

The Pennsylvania Horticultural So-
ciety held its meeting Tuesday, Janu-
ary 21st, 1919, at 3.30 p. m., at Griffith
Hall, Crozer Building, Philadelphia.
The regular business meeting of the
society was held after the lecture.

Mr. James Boyd, president of The
Pennsylvania Horticultural Society
and president of The American Peony
Society gave an illustrated talk on
"Flowers As a Hobby".

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Am Beauty, Special	50.00	to 75.00	50.00	to 60.00	80.00	to 90.00
" " Fancy and Extra	35.00	to 50.00	30.00	to 40.00	60.00	to 75.00
" " No. 1 and culls	10.00	to 30.00	12.00	to 20.00	35.00	to 50.00
Russell	15.00	to 35.00	15.00	to 40.00	25.00	to 50.00
Hadley	15.00	to 35.00	5.00	to 10.00	10.00	to 40.00
Mock, Key	15.00	to 35.00	5.00	to 25.00	.....	to
Arenberg, Hoosier Beauty	10.00	to 30.00	15.00	to 35.00	18.00	to 30.00
Ward, Hillingdon	15.00	to 35.00	8.00	to 12.00	.....	to
Killarney, Key, Taft	15.00	to 35.00	8.00	to 12.00	10.00	to 25.00
Ophelia, Sunburst	15.00	to 35.00	8.00	to 15.00	10.00	to 25.00
Carnations	8.00	to 12.00	3.00	to 6.00	8.00	to 1.00
Cattleyas	50.00	to 75.00	.....	to 100.00	60.00	to 75.00
Lilies, Longiflorum	25.00	to 35.00	.....	to 25.00	25.00	to 30.00
Lilies, Speciosum	8.00	to 20.00	.....	to	5.00	to 8.00
Lily of the Valley	4.00	to 8.00	8.00	to 10.00	.....	to
Snappdragon	8.00	to 12.00	8.00	to 15.00	15.00	to 20.00
Violets	1.00	to 2.00	.50	to .75	.....	to 2.00
Stevia	2.00	to 3.00	.....	to .....	.....	to
Calendula	2.00	to 4.00	3.00	to 5.00	6.00	to 8.00
Sweet Peas	2.00	to 4.00	1.00	to 1.50	1.50	to 4.00
Gardenias	.....	to 100.00	.....	to .....	.....	to 50.00
Adiantum	1.00	to 1.50	.....	to 1.00	2.50	to 3.00
Smilax	.....	to 25.00	.....	to 25.00	25.00	to 30.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	35.00	to 50.00	30.00	to 100.00	50.00	to 60.00

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

Wholesale Growers of Cut Flowers

ROSES, CARNATIONS

AND ALL OTHER SEASONABLE STOCK

Shipping orders have most careful attention always

WILLIAM F. KASTING Co.

Wholesale Florists

568-570 WASHINGTON STREET - BUFFALO, N. Y.

Flower Market Reports

There is hardly any noticeable change in the market conditions for the past week. Stock still continues scarce in some of the items listed while the demand is more than enough to clean up almost daily. Carnations are being received in greater quantity but not enough to affect quotations. Roses are of excellent quality even the shorts showing up well. Paper white narcissus and snapdragon clean up almost as rapidly as shipments are received. The shortage of lilies is the most disturbing feature and many orders are received which are impossible to fill. Violets have increased in volume and move slowly. The business situation is good, however, and wholesalers as a rule are apparently satisfied.

January so far has been **CHICAGO** noted for high temperature with the exception of a very few days. At this writing the thermometer registers in the fifties by day and is above freezing all night, a condition which is bound to influence the production of stock. There are more carnations coming into the market but the out of town trade calls for so many that some houses are still cutting down their orders for these flowers. Roses are none too many to go round. Violets are feeling the effect of the warm winter and orchids are more plentiful than earlier in the season. There is a good demand for all kinds of stock, including freesia, lilies, calendulas, snapdragon, etc. Green is much in demand and the supply is none too large.

Business continues **CLEVELAND** brisk with supply about equal to demand. Liberal quantities of carnations reached the market, but, although the demand would not absorb them at the beginning, they cleaned up at the close of business Saturday. Roses are still rather light, there not being sufficient to meet the call. Such leading sorts as Ophelia, Shawyer, Russell and Ward appear to be temporarily off crop. Paper whites and freesias are abundant. Sweet peas are coming in very slowly. Easter lilies are again numbered among the short items. A few tulips are coming in, but not in sufficient quantities to cut any figure. Such miscellaneous stock as mignonette, calendulas, myosotis and snapdragons may be had in limited amounts. Violets are moving slowly, which is somewhat attributable to their poor quality, caused by se-

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Jan. 20		CHICAGO Jan. 13		BUFFALO Jan. 20		PITTSBURG Jan. 20	
Roses								
Am. Beauty, Special.....	50.00	to 75.00	50.00	to 60.00	60.00	to 75.00	50.00	to 60.00
" " Fancy and Extra.....	30.00	to 40.00	30.00	to 40.00	25.00	to 50.00	30.00	to 40.00
" " No. 1 and culls.....	8.00	to 25.00	15.00	to 25.00	5.00	to 20.00	5.00	to 20.00
Russell.....	15.00	to 30.00	6.00	to 25.00	8.00	to 30.00	10.00	to 25.00
Hadley.....	15.00	to 25.00	15.00	to 25.00	8.00	to 15.00	.....	to
Euler, Mock.....	15.00	to 25.00	15.00	to 25.00	6.00	to 10.00	10.00	to 20.00
Arenberg, Hoosier Beauty.....	10.00	to 20.00	8.00	to 10.00	6.00	to 10.00	.....	to
Ward, Hillingdon.....	8.00	to 15.00	6.00	to 10.00	6.00	to 8.00	6.00	to 15.00
Asperberg, Key, Taft.....	8.00	to 15.00	5.00	to 10.00	6.00	to 15.00	6.00	to 15.00
Ophelia, Sunburst.....	8.00	to 25.00	6.00	to 10.00	6.00	to 15.00	6.00	to 15.00
Carnations	4.00	to 8.00	2.00	to 4.00	4.00	to 7.00	4.00	to 6.00
Cattleyas.....	60.00	to 75.00	75.00	to 100.00	60.00	to 75.00	50.00	to 60.00
Lilies, Longiflorum.....	.....	to 20.00	12.00	to 20.00	15.00	to 20.00	20.00	to 25.00
Lilies, Speciosum.....	.....	to .....	.....	to	8.00	to 10.00	.....	to
Lily of the Valley.....	.....	to 8.00	6.00	to 8.00	8.00	to 12.00	8.00	to 10.00
Snapdragon.....	12.00	to 20.00	10.00	to 20.00	6.00	to 12.00	6.00	to 8.00
Violets.....	1.00	to 1.50	2.00	to 3.00	1.00	to 1.50	.75	to 1.25
Stevia.....	.....	to	2.00	to 3.00	.....	to .....	.....	to
Calendula.....	4.00	to 5.00	3.00	to 5.00	4.00	to 6.00	4.00	to 6.00
Sweet Peas.....	1.50	to 2.00	1.50	to 3.00	2.00	to 4.00	1.00	to 3.00
Gardenias.....	.....	to	25.00	to 50.00	20.00	to 25.00	.....	to
Adiantum.....	1.00	to 1.50	1.00	to 1.50	1.25	to 2.50	1.50	to 2.00
Smilax.....	20.00	to 25.00	20.00	to 25.00	20.00	to 25.00	.....	to 20.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00	to 50.00	50.00	to 75.00	35.00	to 50.00	40.00	to 60.00

rious delays in transit. Local greens, including adiantum, are pretty well cut out. In retail circles trade was largely sustained last week by funeral work, among which were several casket covers of orchids. There were also a number of wedding decorations. The mild weather is serving to make corsages more popular, a fact attested to by the increased demand for small roses and lily of the valley.

Business is holding **CINCINNATI** up enough to keep the market cleared of stock fairly well. The supply is about the same as it was last week, and the demand from out of town is heavy. Roses are somewhat short and sell readily. Carnations are cleaning up from day to day, the supply having shortened. A good cut of Easter lilies is coming into the market and rubrun and calla lilies are available. To the list of bulbous offerings which up to this time included paper white narcissus and freesia, have been added Dutch hyacinths and yellow narcissus. Sweet peas are meeting with a big demand. Snapdragon sells well. Other offerings are stevia, single violets, lily of the valley, orchids, forget-me-not, wallflower, baby primrose and calendula.

The market has stiffened up again after a brief space of weakness in some things last week. The rose supply is light throughout the list and they clean up well, particularly pink and white, and the principal call is for funeral work. Carnations are maintaining their price remarkably well. Paper whites are in larger supply and sell moderately well at present figures. Lilies, both pink and white, are in fair demand, accumulations occurring only once in a while. Other bulbous stock is grad-

ually increasing but so far there is no difficulty disposing of it at good prices. Some very fine iris has been offered and taken at as high as \$6.00 and \$7.50 per dozen. Lily of the valley is not plentiful and moves slowly. Supply and demand are about equal so far as cattleyas are concerned.

Flowers have **ROCHESTER, N. Y.** become more plentiful.

Roses are of good quality and include some especially fine Ophelia and Columbia. The sunshire has brought on a quantity of freesias, paper white narcissi, jonquils and roman hyacinths. The supply of carnations has improved. Callas and lilies are in fair supply. Violets are not selling very good and prices are lower. Greens are all fairly plentiful with the exception of smilax which is off crop.

Business continues to **ST. LOUIS** be fairly good and prices are holding well. Both carnations and roses are in good supply and violets and sweet peas have a steady demand.

Business continues **WASHINGTON** good, with prices showing little reduction. Funeral work is slackening up with the decrease of influenza. There are not enough flowers of any variety to fill all orders. The dark and rainy days of last week had their effect on roses in particular, and sweet pea buds dropped off in alarming numbers. Orchids have been plentiful. There is little demand for lily of the valley because of its high price.

BUSINESS TROUBLES.

Chicago, Ill.—Irene Williams, trading as the Atlas Flower Shop, filed a voluntary petition in bankruptcy January 9th. The liabilities are scheduled as \$8,282.40, assets \$618.

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Choice Cut Flowers
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Fresh Cut Decorative Evergreens.
Highest Standard of Quality. Largest
Stock in America. Write for Illustrated
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Business Here Is Always Good
I NEED MORE FLOWERS. Send your stock here and get
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New York
AGENT FOR CABILLO'S CATTLEYAS

HENRY M. ROBINSON CO. OF NEW YORK
WHOLESALE FLORISTS
55-57 West 26th Street
Telephones, 12-3510 Madison Square
MAURICE L. GLASS, Treasurer
Consignments Solicited

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Part of Week ending Jan. 18 1919		First Part of Week beginning Jan. 20 1919	
American Beauty, Special	60.00	to 100.00	60.00	to 100.00
" " Fancy and Extra	25.00	to 50.00	25.00	to 60.00
" " No. 1 and culls	5.00	to 25.00	5.00	to 25.00
Russell	10.00	to 35.00	10.00	to 35.00
Hadley	10.00	to 50.00	10.00	to 50.00
Euler, Mock, Key	8.00	to 30.00	8.00	to 30.00
Arenberg, Hoosier Beauty	6.00	to 25.00	6.00	to 25.00
Ward, Hillingdon	8.00	to 20.00	8.00	to 20.00
Killarney, Taft	8.00	to 20.00	8.00	to 20.00
Ophelia, Sunburst	8.00	to 25.00	8.00	to 25.00
Carnations	5.00	to 10.00	5.00	to 10.00

WE WANT MORE SHIPPERS

We have a numerous clientele of New York City buyers and the demand exceeds our supply. This is especially true of Roses. We have every facility and abundant means and best returns are assured for stock consigned to us.

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UNITED CUT FLOWER CO. Inc.
111 W. 28th St., NEW YORK
D. J. Pappas, Pres.

REED & KELLER
122 West 25th St., New York
Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
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Boston Floral Supply Co.

347-357 Cambridge St., Boston
Headquarters for
CYCAS, BASKETS, WIRE DESIGNS
and WAX FLOWERS
Send for price list if you have not re-
ceived one.

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.
10,000...\$2.25 50,000...\$9.75 Sample free.
For sale by dealers.

ROBERT DYSART
CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting
especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
40 STATE STREET BOSTON
Telephone Main 58

When writing Advertisers kindly mention Horticulture

Local and General News

CHICAGO

A. Henderson expects cannas to be here in another week.

J. Huebner says business runs steadily this season and the daily social and club events call for the moderate use of flowers rather than an occasional big event with many flowers, a condition which he thinks preferable to the florist.

The Chicago florists are keeping up their interest in bowling under their able captain John Huebner, and are making their usual good scores each week. The end will come in March when they will participate in the State Tournament.

Miss Paradise received word of the safe arrival of A. L. Vaughan and family in St. Petersburg, Florida. A. L. Vaughan is one of Chicago's pioneer wholesale florists, who has steadily devoted himself to business for many years. His trip will take several weeks and includes a visit to his brother at Collinston, La.

The news of the death of C. Frauenfelder came as a great shock to his many friends in the trade, when they learned the sad news Monday morning.

He was at the Victory Banquet only a few days before and was apparently in the best of health.

He was one of the oldest men in the retail trade, having been at 3343 W. Madison street for thirty-five years.

His obituary will be found on another page.

Our attention is called to a trade list of 1904, sent out by Geo. Hancock & Son, of Grand Haven, Mich., advertising rooted cuttings of fifty-five varieties of carnations, none of which are in cultivation today.

Among them are noted, Enchantress, Boston Market, G. H. Crane, Prosperity, Mrs. Lawson, Mrs. Roosevelt and Flora Hill. On the margin appears some terse comments as applicable today as ever, as "Life is too short and coal too high to be wasted growing poor stuff," and "Can you afford to grow poor varieties? If you can you are the only one."

WASHINGTON, D. C.

William F. Gude is a member of the board of the National Metropolitan bank and has also been elected a director of the Washington Chamber of Commerce. Mr. Gude polled the highest number of votes of any of the

J. J. COAN, INC. Wholesale Florist

116 West 28th Street, NEW YORK

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Everything in Cut Flowers

J. K. ALLEN

"A LEADER IN THE WHOLESALE COMMISSION TRADE FOR OVER THIRTY YEARS"
ROSES! I WANT ROSES!

Have a demand for more than I can supply. Rose Growers Call or Write.

118 West 28th St.

NEW YORK

TELEPHONES
Farragut 167 and 3064

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Part of Week ending Jan. 18 1918		First Part of Week beginning Jan. 20 1918	
Cattleyas.....	25.00	to 60.00	25.00	to 60.00
Lilies, Longiflorum.....	20.00	to 25.00	20.00	to 25.00
Lilies, Speciosum.....	8.00	to 12.00	8.00	to 12.00
Lily of the Valley.....	4.00	to 10.00	4.00	to 10.00
Snapdragon.....	8.00	to 20.00	8.00	to 20.00
Violets.....	.50	to .75	.50	to .75
Stevia.....	.....	.....	.....	.....
Calendula.....	4.00	to 8.00	4.00	to 8.00
Sweet Peas.....	3.00	to 5.00	3.00	to 5.00
Gardenias.....	10.00	to 35.00	10.00	to 35.00
Adiantum.....	.50	to 1.00	.50	to 1.00
Smilax.....	12.00	to 20.00	12.00	to 20.00
Asparagus Plumosus, & Spreng (100 bunches).....	15.00	to 25.00	15.00	to 25.00

many candidates. This is a particularly good record in view of the fact that he had made no effort to secure this office. He is a former president of the Chamber of Commerce. Fred H. Kramer is a member of the board of the Union Savings bank; F. W. Bolgiano has been doubly honored by a place on the board of the Continental Trust Company and the Park Savings Bank.

ROCHESTER, N. Y.

John Dunbar has been confined to his home for several days with the influenza.

W. H. Dildine of Vick's has been at home most of the time during the past week suffering from an infection of the nose and eyes.

E. C. Colgrove of Lyell avenue underwent an operation for the removal of his tonsils but a later examination showed a more serious trouble at the base of the heart and he will have to be operated on again in the early summer.

ST. LOUIS.

Vincent Gorly left for Chicago the latter part of the week.

H. G. Berning and wife will be at the carnation convention.

The publicity committee have prepared advertisements for Valentine Day.

A victory get together banquet of the florists of this city and vicinity will take place at the Jefferson Hotel some time in February.

The retail association met January 14th at Knights of Columbus Hall and it was decided to get together wholesalers, retailers and growers to discuss questions appertaining to the betterment of conditions in times of scarcity and also of glut.

BOSTON.

Frank Conley has returned to Welch Bros. Co. after an absence of several months.

J. J. Casey, of The Rosary, is mourning the death of his wife, also a niece, from influenza last week.

Lieut. John F. Dowd of Roxbury has returned from camp at Jacksonville, Fla. He is a former employee of Thomas F. Galvin.

HENTZ & NASH, Inc.

Wholesale Commission Florists

55 and 57 West 26th Street

Telephone No. 755 NEW YORK
Farragut

QUALITY

QUANTITY

CHARLES MILLANG

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ATTENTION

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Cambridge

New York



**WORLD'S OLDEST and LARGEST
Manufacturers of ALL STYLES and
SIZES of**

FLOWER POTS

A. H. HEWS & CO., INC.
Cambridge, Mass.

NEWS NOTES.

Buffalo, N. Y.—The Quality Flower Shop on Main street has discontinued business.

Dresher, Pa.—Alfred M. Campbell has leased the Ellenwood greenhouses of R. F. Whitmer.

Providence, R. I.—Harry Oakley has discontinued his retail business on Mathewson street.

Newport, R. I.—Robert Cooper, Jr., has been re-appointed superintendent of the city cemeteries.

Salisbury, Ind.—The Camden Greenhouses, which have been closed down for some time, will re-open soon in charge of Edwin C. Hemmerly.

Greenville, S. C.—Fire in the greenhouses of the Greenville Floral Company on January 6th inflicted a damage estimated at \$12,000, \$10,000 of which is in ruined stock.

Woonsocket, R. I.—Oscar T. Boucher of the landscape firm of Boucher Bros. is in the hospital at Gervaise, France, having been wounded in his right hand. He expects to be able to return to this country shortly.

Meadville, Pa.—Mr. and Mrs. George Haas celebrated their golden wedding anniversary on Dec. 29th. Mr. Haas has one of the largest greenhouse establishments in this section and does a prosperous business.

Niagara Falls, N. Y.—Mrs. J. K. Crossett, retail florist at 409 Third street was victimized by a sharper who presented a bogus check for a larger amount than the flower order and vanished with the proceeds.

Augusta, Ga.—The nursery and landscape interests of the P. J. Berckmans Company, Inc., has been sold to Sigmond Tarnok, who has also purchased the home and farm of R. C. Berckmans. In addition Mr. Tarnok has leased the nursery lands of R. C., L. A. and P. J. A. Berckmans, Jr., with option to buy later in the season. The sale does not in any way affect the property of the Berckmans Brothers, at Mayfield, where they have one of the finest orchards and farms in the South.

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Advertisements in this Department, Ten Cents a Line, Net

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Bulbs of all descriptions. Write for prices.
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CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 post-paid. I. L. PILLSBURY, Galesburg, Ill.

DAISIES

Daisies, Bellis, Monstrosa, pink or white, also Longfellow and Snowball, fine strong plants, \$2.50 per 1000. \$6.75 per 3000, cash. BRILL CELERY GARDENS, Kalamazoo, Mich.

DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell. \$10.00 per clump. Cash with order. JOHN P. ROONEY, New Bedford, Mass.

New Peony Dahlia—John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

GLADIOLI

See display adv't gladiolus "Mrs. WATT." HOMER F. CHASE, Wilton, N. H.

GLASS.

6 by 8, 8 by 10, 10 by 12 or 10 by 14 at \$4.50 per box of 50 square feet. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

GREENHOUSE SASH

Standard Hot Bed Sash, Cypress, made with cross-bar, blind tenons, white leaded in joints, \$1.50 each. Orders for 25 or more, \$1.45 each. Glass 6 by 8, 8 by 10, 10 by 12 or 10 by 14 at \$4.50 per box of 50 square feet. Write for circular. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

ORCHIDS

HASSALL & CO., Orchid Growers and Raisers, Southgate, London, England. Cattleyas and Laelio-Cattleyas our specialty. One trial order solicited.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. LAGER & HURRELL, Summit, N. J.

SWEET PEAS

Just Arrived, crop 1918 winter flowering SWEET PEAS, New Zealand grown, the large flowering waved or Spencer type. We have been very fortunate to secure the entire crop of one of the best growers in New Zealand. New Zealand grown seed has always produced the earliest and best blooms, and seed started in August will produce flowers from Thanksgiving until March; requiring a low temperature, these make an ideal crop for the Florist this year. Scarlet, always a good seller. Finest Mixture, all the best colors. Pink and White, Blanche Ferry type. Yarrowa (true), bright rose pink with light wings. Write for further particulars. JULIUS ROEHR'S CO., Rutherford, N. J.

VINES

Flowering and Follage Vines, choice collection. Large Specimen, Pot and Tub grown for immediate effect; also Climbing Roses. J. H. TROY, Mount Hissarlik Nursery, New Rochelle, N. Y.

WIRE WORK

WILLIAM E. HEILSCHER'S WIRE WORKS, 264 Randolph St., Detroit, Mich.

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FOR SALE—On account of ill health will sell cheap for cash, two greenhouses 125 by 26 ft.; 1 potting shed; barn 26 by 35 ft., and two acres of fine land, all improvements, 2 1/2 miles from New York. Good location, one half mile from railroad, fine opportunity to right party. Apply at once or write R. SCHILLER, P. O. Box 94, Woodcliffe Lake, Bergen Co., N. Y.

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Must settle estate; many years successful operation. Good location, convenient to two railroads, within twenty-five minutes of Boston. Also dwelling, stable and outbuildings. Apply at once. MRS. E. M. RUMERY, Newtonville, Mass.

HELP WANTED

We have an opening for a real live salesman who has a good knowledge of stock and knows selling thoroughly by experience. To be on the road the greater part of the time. There is practically no limit to remuneration—it depends to a great extent upon his selling capacity and energy. Only a man who intends to stay would be considered. If you can fill these requirements, write stating nationality, experience and states covered or come and see us personally. Do not reply if you feel you cannot fill this position. It demands a first class man. BOBBINK & ATKINS, Rutherford, N. J.

SITUATIONS WANTED

FRANK MOUNCY, formerly with W. A. Manda, Inc., is open for a position as traveling salesman. Address Phoenixville, Conn.

GREENHOUSE ESTABLISHMENT FOR SALE

Over 10,000 square feet of glass, modern construction, one acre of land; on three improved streets; trolley passes in front of place. Situated in a fine suburban city of 40,000 inhabitants. Handy to New York and Philadelphia markets. Great opportunity for local work, and everything produced could be sold right at home at retail prices. Fine opportunity for ambitious man. Only \$5,000 cash needed, balance easy terms. Apply "Chance," care of Horticulture.

When Writing to Advertisers Please Mention Horticulture

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Save your plants and trees. Just the thing for greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrips, Red Spider, Black and Green Fly, Mites, Ants, etc., without injury to plants and without odor. Used according to direction, our standard insecticide will prevent ravages on your crops by insects.

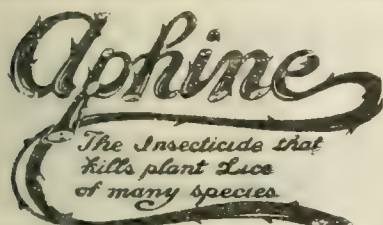
Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

½ Pint, 30c.; Pint, 50c.; Quart, 90c.;
½ Gallon, \$1.50; Gallon, \$2.50; 5 Gallon Can, \$10.00; 10 Gallon Can, \$20.00.
Directions on package.

LEMON OIL COMPANY

Dept. S. 420 W. Lexington St., Baltimore, Md



The Recognized Standard Insecticide.
A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$2.50.

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For mildew, rust and other blights affecting flowers, fruits and vegetables.

Quart, \$1.00; Gallon, \$2.50.

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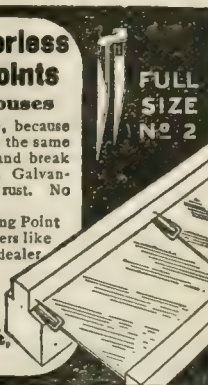
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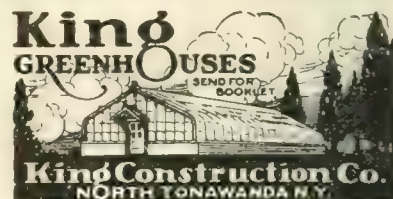
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Page	Page	Page	Page	Page	Page
Advance Co.....119	Chase, Homer F.....100	Galvin, Thos. F.....113	Lager & Hurrell.....109	Pulverized Ma- nure Co.....119	Smith & Fettes Co.....113
Allen, J. K.....117	Childs, John Lewis.....98	Gasser Co., J. M.....113	Lemon Oil Co.....119		Smyth, Wm. J.....113
American Bulb Co.....98	Clarke, D. Sons.....112	Graham & Son, A.....113	Liggit, C. U.....99	Randalls Flower Shop.....113	Stearns Lumber Co., A. T.....119
American Fores- try Co.....108	Coan, J. J.....117	Grakelow, Chas. H.....113	Maine Bulb & Flower Grow- ers.....109	Reed & Keller.....116	Stump, G. E. M.....112
Anderson, S. A.....113	Cooke, Geo. H.....112	Gude Bros. Co.....112	McHutchison Co.....109	Reidel & Meyer.....116	Stumpp & Walter Co.....98
Aphine Mfg. Co.....119	Conard & Jones.....109	Hail Asso.....118	Marshall, W. E. & Co.....98	Rice & Co., Jerome B.....111	Thorburn, J. M. & Co.....98
Barrows, H. H.....100	Cottage Gardens Nurseries.....109	Heistad, H.....98	McKenzie, John.....113	Reid, Edw.....114	Totty, Chas. H.....109
Bayersdorfer, H. Co.....114	Cowee, W. J.....116	Hart, Geo. B.....114	Metropolitan Ma- terial Co.....120	Reuter, L. J. Co.....100	Tracy, B. Ham- mond.....99
Bay State Nur- series.....100	Craig Co., Robt. 99	Hess & Swoboda.....113	Michell, H. F. Co. 98	Robinson, Henry M. Co.....116	Trepel, C. C.....112
Bloomington's.....112	Danker.....112	Hews & Co., A. H.....113	Michigan Cut Flower Ex.....114	Robinson, H. M. & Co.....114	United Cut Flow- er Co.....116
Bobbink & At- kins.....99	Dards.....112	Hill Co., E. G.....114	Millang, Chas.....117	Roebers, J. Co.....100	Vincent, R., Jr., & Sons Co.....97
Boddington Co., Inc., A. T.....110	Dreer, H. A..... 109-118-119	Hill, D. Nursery Co.....100	Muller-Sealey Co. 99	Roland, Thomas.....113	Wants, For Sale etc.....118
Bolzano & Son. 98	Dunlop, John H.....113	Irwin, R. J.....98	Murray, Samuel.....112	Rosery, The.....112	Warburton.....113
Boston Floral Supply Co.....116	Dwelle-Kaiser Co.....118	Johnston Bros.....112	National Nur- seryman.....109	Schwake, Chas. Co.....99	Weber, F. C.....113
Breck, J. & Sons. 98	Dysart, R.....116	Kasting, W. F. Co.....114	Nicotine Mfg. Co.....120	Sekenger, Adam.....112	Weiss, Herman.....116
Breck - Robinson Co.....108	Edwards Folding Box Co.....114	Kelway & Son.....98	Niessen, Leo Co.....114	Sheridan, W. F.....116	Wilson.....112
Breitmeyers, J. Sons.....112	Esler, J. G.....118	Kervan Co.....116	Palmer, W. J. & Son.....113	Siebrecht, Geo. C.....116	Wood Bros.....113
Budlong, J. A.....114	Farquhar, R. & J. Co.....111	King Construc- tion Co.....119	Park Floral Co.....113	Siggers & Sig- gers.....118	Woodruff, S. D. & Sons.....98
Bunyard, A. T.....112	Fengar, E. W.....99	Knoble Bros.....113	Parshelsky Bros.....120	Sim, Wm.....98	Young, A. L.....116
Burnett Bros.....98	Ford, M. C.....116	Kroeschell Bros.....120	Penn the Florist.....112	Skidelsky, S. S. & Co.....98	Young, John.....116
Burpee, W. A. & Co.....98	Ford, W. P.....116	Kuebler, W. H.....116	Pennock, S. S. Co.....97	Smith, Elmer D. & Co.....100	Young & Nugent.....112
Carter's Tested Seeds, Inc.....111	Fottler, Fiske, Rawson Co.....111	Kottmiller.....112	Pierce Co., F. O.....120	Smith, P. J.....116	Zech & Mann.....114
	Froment, H. E.....116	Kunderd, A. E.....106	Pierson, A. N.....97	Smith, W. & T. Nursery Co.....100	
			Pierson, F. R.....97	Smith, The Flor- ist.....113	

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The Glossary This is an analysis of all technical terms that are used in the work and in similar works. It comprises botanical and horticultural terms with brief definitions.

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Class Articles Special effort has been made to secure the best cultural advices for the plants requiring peculiar or particular handling. Here are some of the titles of these articles: Ants; Autumn Gardening; Bedding; Diseases; Drainage; Floral Designs; Formal Gardening; Hotbeds and Coldframes; Insects; Landscape Gardening; Lawn Planting; Orchards; Rock Gardening; Subtropical Gardening; Tools and Implements; Village Improvements; Window Boxes, etc.

General Index The final volume contains a complete index to the entire work, enabling the reader to locate volume and page of any subject he has in mind.

The complete set of six volumes, bound in decorated buckram, will be delivered to you for only \$3 down and \$3 a month for 11 months, until the full amount of \$36 has been paid. Cash price \$35.

HORTICULTURE, 147 Summer St., Boston, Mass.
Enclosed find \$3 for which send me the "Standard Cyclopedia of Horticulture" in buckram, and I agree to pay you \$3 per month for 11 months until the full amount of \$36 has been paid. (Or cash with the order. Price \$35.)
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Further Particulars Sent On Request

HORTICULTURE, 147 Summer St., BOSTON, MASS.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

NATIONAL PUBLICITY CAMPAIGN.

A close examination of the advertisement clippings which come to our Promotion Bureau, shows that a large number of florists who use the advertising columns of their local newspapers have not incorporated our slogan, "Say it with Flowers" in their copy.

We wonder whether they properly realize the value of a slogan or trademark which, through the expenditure of large sums of money, has been publicized. Only the other day a discussion was reported in a prominent literary publication, as to the probable value, from a sale standpoint of the well-known mark applied to certain syndicated productions of California Citrus fruit, "Sunkist." The most conservative value, as evolved from the discussion, was \$1,000,000, while many valued it at amounts nearer the \$10,000,000 mark. Why? Because it has been thoroughly impressed upon the public mind, and has thus become an investment of inventorial value.

Our committees last year spent nearly \$50,000 to establish in the same way our slogan, "Say it with Flowers." And without the slightest doubt, the slogan was driven home, in force greatly in excess of what our really small investment might be expected to generate. This year our Campaign Fund will not only maintain the impression created last year, but at least double the force.

And yet we find florists advertising liberally in the newspapers who are not using the slogan, which has cost so much and has proved so effective, and which they are privileged to use, without cost—although we do recommend that they use the uniform script, as furnished in the electrotyped headlines our Promotion Bureau supplies at prices barely sufficient to cover the foundry charges.

We are sure the florists who neglect to use the slogan do not realize their loss by the omission. The more the public sees of it, the better it is for the business.

It focuses public attention upon a very important reason for buying flowers—expression of sentiment. And who shall say that this reason is not

the keystone in the foundation of the retail florists business?

We have a folder describing a series of little aids to a direct drawing-down of benefit from our advertisements in 33 magazines, and shall be glad to mail a copy to anyone on request.

Our 1919 fund is mounting, but ought to mount faster. The committees were seriously handicapped in their plans for magazine publicity through uncertainty as to the funds at their disposal. Magazine space, in many instances, must be booked months in advance, and the committees could hardly be expected to incur responsibility themselves, although, as a matter of fact, in their faith they have done it. Florists who have not subscribed can help the campaign work greatly by making early subscriptions. We cannot do much in the dog days, but a lot can be done now and in the fall. Help us to meet our problems with money in hand, and we can get still better results than we are doing.

Give now; and give generously, for the more you give, the more you get.

The following subscriptions are recorded for the past week:

Annually for Four Years—Peter Reinberg, Chicago, \$200; Chas. M. Weaver, Ronks, Pa., \$50; U. C. Wanner, Sewell, N. J., \$5; John Kuhn, Philadelphia, Pa., \$10; A. M. Rainford, San Diego, Calif., \$5; C. C. Pollworth Co., Milwaukee, Wis. (2nd sub'n), \$25; Lyon & Anderson, Belvidere, Ill., \$5; Sawyer & Johnson, Bethlehem, Pa., \$10; L. Turner & Sons, Kenosha, Wis., \$10; E. S. Richards, Greenfield, Mass., \$10; Mrs. E. A. Williams, Pittsburgh, Pa., \$25; J. Albert Brodrib, Hartford, Conn. (2nd sub'n), \$10; Arkansas City Floral Co., Arkansas City, Ark., \$5; Gust W. Grossart, Belleville, Ill., \$5; John F. Horn & Bro., Allentown, Pa., \$25; W. H. and A. F. Evans, Philadelphia, Pa., \$25; Frank A. Purssell, Irondequoit, N. Y., \$5; State Fair Floral Co., Sedalia, Mo., \$5; B. Katzwinkle, Mendota, Ill., \$5; Espelln-Warren Floral Co., Fort Collins, Colo. (2nd sub'n), \$5.

For One Year—New York Cut Flower Co., New York, \$250; New York Cut Flower Exchange, New York, \$100; Philip F. Kessler, New York, \$50; A. T. Stokes, Moorestown, N. J., \$10.

Special subscriptions, one year, received through The Florists' Telegraph Delivery Association—Grandy the Florist, Norfolk, Va., \$15; Schramm Bros., Toledo, O., \$10; Wm. Dethlefs, Mitchell, S. D., \$5; F. E. Blake, Marion, O., \$5; Miss L. G. Rennie, Malone, N. Y., \$5; Dole Floral Co., Beatrice, Neb., \$5; Dominion Floral Co., Montreal, Que., \$10; Fred H. Lemon & Co., Richmond, Ind., \$5; T. T. Scheel, Carey, O., \$5. Total, \$920.00. Previously reported, \$27,310.50. Grand total, \$28,230.50.

Department of Plant Registration

Public notice is hereby given that as no objection was filed against the

registration of Geranium General Pershing by A. N. Pierson, Inc., Cromwell, Conn., the same became complete on December 23, 1918.

JOHN YOUNG, Secy.

1170 Broadway, New York.

Obituary

Charles Fox.

One of the veterans of the retail florist trade of Philadelphia passed away suddenly on the 24th inst. Charles Fox, located for generations on Broad street, near Columbia avenue, was in his 81st year and hale and hearty to the last. In fact he had been enjoying the afternoon concert of the Boston Symphony Orchestra at the Academy of Music, when on his way home on the trolley he went to sleep at 16th and Market streets. A sure peaceful and happy demise if one had the choosing of such. But like entering the world our passing out of is beyond human control. Mr. Fox lived to a hale old age and leaves behind him unsullied memories of a long, honest, prosperous career and happy and loving memories of all who knew him and their name is legion.

Henry W. Wood.

Henry W. Wood, of T. W. Wood & Sons, Richmond, Va., died on January 14 at New Orleans, while on his way to California on account of his health. Mr. Wood was a native of Newark, Eng., and was 55 years of age. He came to this country with his father in 1879. He was a member of the American Seed Trade Association and served as president of that organization in 1906, and was a member of the Wholesale Seedsmen's League. He is survived by two brothers, one sister and three sons.

John M. Hunt

John M. Hunt, died at Huntington, N. Y., on January 16, aged 33 years. Pneumonia was the cause. Mr. Hunt was born in Kent, Eng., and came to this country eight years ago. He was a proficient gardener.

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 147 Summer Street, Boston, Mass.

 WM. J. STEWART, Editor and Manager
 Telephone, Beach 292

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 Per inch, 30 inches to page..... \$1.25
 Discount on Contracts for consecutive insertions, as follows:
 One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, not consecutive, rates on application.

SUBSCRIPTION RATES:

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

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CONTENTS

	Page
SOCIETY OF AMERICAN FLORISTS—National Publicity Campaign—Department of Registration.....	101
OBITUARY—Charles Fox—Henry W. Wood—John M. Hunt.....	101
NEW ENGLAND NURSERYMEN'S ASSOCIATION—President's Address—Secretary's Report—The Dinner—Wednesday's Session.....	103-104
YUCCA—Richard Rothe—Illustrated.....	104
CLUBS AND SOCIETIES—State Florists' Association of Indiana—Horticultural Society of New York—Gardeners' and Florists' Club of Boston—Notes.....	105
AMERICAN CARNATION SOCIETY—President's Address—Secretary's Report—Treasurer's Report....	107
THE CULTURE OF CONIFERS—A. H. Hill.....	108
SEED TRADE—Department Seed Experts Visit Europe—Conservation Need Indicated—More Seed Grown During the War—Government Help Needed—Notes.....	110-111
OF INTEREST TO RETAIL FLORISTS: Flowers by Telegraph—New Flower Stores.....	112-113
FLOWER MARKET REPORTS: Boston, Chicago, Cleveland, Cincinnati, Philadelphia, Rochester, St. Louis, Washington.....	115
LOCAL AND GENERAL NEWS: St. Louis.....	108
Chicago, Cincinnati, Boston, Rochester.....	117
MISCELLANEOUS: Better Service Campaign.....	107
Greenhouses Contemplated.....	108
Patents Granted.....	108
Visitors' Register.....	109
Hats Off to Edward C. Dungan.....	109
Business Troubles.....	109
News Notes.....	108-113
The Onion Fly.....	111
New Corporations.....	111

The airplane A few weeks ago we queried as to which enterprising florist would be the first to use the air plane as a vehicle of delivery. A grocer has been the first to adopt this idea. At Charleston, W. Va., on January 25th, a charter to the Spicer Grocery Co. of Charleston and Kanawha City, authorizing it to "deliver groceries and food products by aerial navigation," was granted by Secretary of State Young. Mr. Young says this is the first request of the kind ever made in America by a business organization. The grocer has the lap on the florist apparently.

What quarantine No. 37 means to nurserymen

Among those assembled at the New England Nurserymen's Association Convention at Boston this week, and amongst them were several of the trade from New

York and New Jersey, it was conceded that the application of the new Federal Horticultural Board embargo would cut off at least forty per cent of the total volume of business done by nurserymen in the eastern states and probably as far west as Chicago. Those who attended the hearings at Washington were given to understand that the board would take no drastic action but could anything be more drastic than quarantine No. 37? An amusing bit of information came to light at the convention to the effect that a certain grower of conifers in the middle states who had strongly favored the embargo and had written to numerous friends employing them also to work for it, had on learning of its having been passed immediately cabled to Holland stating that he wanted to import 100,000 small conifers to come in if possible before the embargo should take effect. Many nurserymen who at first favored the embargo as affording more certain protection to some individual interest than could be had under any tariff, now regret their earlier attitude and inaction. We might quite as consistently be told by some Federal Board that we could import no more silk from China, because among the girls who pick apart the cocoons, some might have germs of leprosy or bubonic plague, therefore we must do without silk, we must use cotton instead. Where would the receipts of the great dry goods establishments of the country be under such a ruling? Yet quarantine 37 provides a similar case for the nurserymen and florists to solve.

One of the gratifying lessons of the past month is that, with but a few exceptions, the higher prices which florists have been obliged to ask for their product has not been seriously resented by the public. Like all other manufactured commodities, the products of the greenhouse have been the victims of unprecedented times and conditions, and all right-minded people fully understand. Doubtless there have been some profiteers who have not hesitated to take advantage of any opportunity to put on the screws. These are "chiels that wanna ding" but there are such in every line of industry. The florist trade has no more than its normal proportion of them and when a fair and considerate attitude has been maintained we have yet to hear of any widespread protest, and we think that, generally, the public has been satisfied to meet the florist half-way. Now that times of greater plenty are in sight we hope the trade will not be stampeded into ruinous competition as in so many instances in times past. There can be no more prolific cause for public distrust than such a course. Don't begin slashing because you happen to have a surplus but do everything in your power to maintain quality. There is plenty of room for improvement in this respect. The carnation is a case in point. Everybody who is acquainted with conditions all over the country is well aware of the vast difference in quality between the carnations produced in certain sections and those produced elsewhere. For growers or dealers in the high-grade localities where the Goddards, Pembrokes, Strouts, Patens, Fishers, Howards and other experts are to be found, to be expected to base the market value of their flowers on the prices prevailing in other and less fortunate sections would be manifestly absurd and we hope to see high-class product, wherever produced, hold well up for the rest of the season to the figures which their qualities merit.

NEW ENGLAND NURSERYMEN'S ASSOCIATION

The eighth annual convention of this association was called to order at 2 p. m. on Tuesday, January 28th, at the American House, Boston, by Pres. A. E. Robinson. After the roll call several new members were unanimously elected. During the convention Wm. H. Judd and Mr. Vandervort of the Arnold Arboretum, and W. N. Craig, secretary of the Gardeners' and Florists' Club of Boston, were elected to honorary membership.

President's Address

President Robinson said in part:

When we met in Boston a year ago, the shadows of the great war were hovering over the world. The armies of Germany had wrought terrible destruction in Europe and had shown a tremendous power in organization and in resources. France and Belgium lay bleeding until the coming of our forces which were materialized with great rapidity, and with one gigantic effort our great army, the finest the world has even seen, was rushing to their aid and the final blow delivered almost before we realized the battle had been won and the beastly Hun shorn of his power. It is, therefore, our first duty as well as our great privilege to render thanks to Almighty God, who in his infinite wisdom has seen fit to end this cruel barbarism. The present year has been one of more or less uncertainty in many ways. We have done our part in the war gardens, and in the various war activities it is a consolation to know that the nurserymen have done their part nobly. We have flown to the breeze our service flags, indicating to all that we have sent many of our best young men to the colors, given liberally as our means would allow to charities, working as we never worked before and pocketing our losses as gracefully as any body of men could possibly do. The year, however, has brought about much to encourage us. Our business has not suffered to the extent that one might have expected in time of war. The labor situation has of course been a handicap, but we have managed to pull through. We are now facing the reconstruction period and present indications seem to show that our products will be in good demand. It is important, however, that we take cognizance of the times in which we are living, for conditions in this country and in Europe will never be the same as before the war.

In the minutes of the Nurserymen's meeting at Chicago, I find a report of a committee called the Vigilance Committee, whose principal work has been to watch for unfair and misleading advertisements of nursery products and calling guilty parties to account. Such advertisements have appeared during the past year in the columns of some of the New England papers and are not only unfair but an imposition upon an innocent public. Such things are a menace to our business and should be done away with, and I believe there is room in this association for such a committee. If there is one thing that New England nurserymen stand for, it is truth and fair dealing.

One of the important things on which we are to express our attitude at this meeting is the recent ruling which prohibits the importation of nearly everything in the way of nursery stock from Europe after June 1, 1919. If this drastic measure is allowed, the prohibition of all international shipments is not at all improbable, and I hope something will be done here in Boston to stop it.

Secretary's Address.

Secretary R. M. Wyman reported that his activities had been confined mostly to publicity and membership entailing much correspondence. Thirteen new members were elected during the year, making a total of fifty-four members. This number does not include members who were elected at this meeting. He was authorized to make an effort to collect membership dues.

The treasurer, V. A. Vanicek reported a balance of \$346.93 in the treasury, and a committee was appointed to audit the books.

A. P. Horne, of the Executive Committee, gave much praise to the able work performed by the secretary in trying to secure new members, but felt that it was up to every member to do all he could towards that end. He also felt that the yearly membership fee should be five dollars, payable in advance and all members whose dues were eleven months in arrears should be automatically dropped. This recommendation was referred to the committee on resolutions for their consideration.

W. H. Wyman, chairman of the publicity committee, then made his report and his recommendations were laid on the table.

As chairman of the committee on transportation, Charles Adams told of

the difficulties experienced the past year. In some New England towns, shipments could be made only one day a week, and during the recent strike, demurrage charges of five dollars per box were exacted until the strike was settled.

In discussing quarantine regulations, F. S. Baker, of Cheshire, Ct., said that, when the number of pests here now is taken into consideration, it is mighty hard to realize that there are any more that can come in, but the authorities agree that there are about 1,400 more that could come in, and he thought it better to have the quarantine regulations go through and keep them out. Mr. Wyman said that this was the biggest problem to date that has confronted the nurserymen. He told of going before the Federal Horticultural Board some years ago and favored giving the board larger powers. They were given that power, and now the board has become the whole thing. Mr. Wyman recommended that everyone present write to his Congressman setting forth the injustice and demand the immediate repeal of the law or its modification of having a board of five or six men that can hold up the whole agricultural and horticultural interests of the United States removed.

Curtis Nye Smith, who opened the discussion on the new laws affecting nurserymen reported that there had been very little in that line accomplished the past year. A law giving more power to nursery inspectors in Massachusetts was passed, and \$8,000 was appropriated so that anyone whose property in fruit bearing trees had been destroyed on account of the white pine blister rust can have his losses adjusted. In regard to the plant embargo, Mr. Smith felt that if some system of plant inspection could be enforced in Europe and the United States Department of Agriculture would adopt such a scheme of inspection over there and have certificates attached to consignments to this country, all this bugaboo which threatens to throw this country into horticultural anarchy or loss would be overcome.

J. Horace McFarland, Harrisburg, Pa., and Peter Koster, of Boskoop, Holland, also gave their views on the quarantine regulations.

F. F. Rockwell, of New York, felt that the subject of Market Development was worthy of serious consideration now. He felt that a slogan should be adopted, and welcomed any suggestions

from the members present. Mr. Moon of Morrisville, Pa., said that the movement had been financed in a very limited way but that an appeal was going out within a very few days. He felt that subscribers to this movement should guarantee their stocks true to name, free from disease, and delivered in good condition. He also said that they were trying to make the results of this campaign come back many fold to those who are financing it. Mr. Pyle, of West Grove, Pa., felt that the subject was of national importance, and that the general public should be educated to the use of nursery stock—how to handle it when they received it and how to care for it to make it grow.

The Dinner.

The annual dinner was held in the Venetian Room, and President Robinson acted as toastmaster. The principal speaker of the evening was Mr. Koster, who gave a very interesting address on conditions in Holland and Belgium during the war. After the dinner the members and friends listened to a very fine address, "How can we make New England more fruitful and more beautiful?" by J. Horace McFarland. The lecture was illustrated with stereopticon views, which included a large number taken in the Arnold Arboretum.

Wednesday's Session.

E. J. Canning, of Northampton, Mass., read a very interesting paper on "Are we growing enough high grade ornamentals?" He felt that in spite of the fact that in New England there are 90 per cent. ornamentals grown against 10 per cent. fruit trees, we could use more. A discussion followed.

W. H. Judd told of the merits of the best ornamentals in the Arnold Arboretum, beginning with the Hamamelis which flowered in January, and continuing with those in bloom until the fall. His paper will appear in full in a later issue of HORTICULTURE.

E. F. Coe, of New Haven, agreed that there should be more specialists, and by co-operating in a business way, growers should find out the material that is wanted. A discussion also followed his remarks.

W. H. Wyman, chairman of the committee on resolutions on quarantine regulations, recommended that the association go on record as being opposed to the ruling to be effective June 1st, and that a copy of the resolutions be forwarded to the Hon. David I. Houston, Secretary of Agriculture, and to the senators and representatives in Congress from the New Eng-

YUCCA.



YUCCA FILAMENTOSA.

To be at the service of home ground owners in matters pertaining to flower gardens is an occupation rich in problems of a frequently very different nature. There is, for instance a border facing south or southwest fully exposed to the sun all day. A high privet hedge runs along the back side of it, while the front along a gravel walk is lined by a low kept hedge of *Ligustrum ovalifolium aureum*. Nothing in the order of hardy perennials or annuals ever did well in this border, so your correspondent, one day, was confronted by the question: What would you advise me to plant on this border sure to thrive and look well? It was self evident that previous failures were due to the soil of the whole border being thoroughly invested by privet roots. At the exposure given above a few hot waves during mid-summer were apt to speed the destruction of average border plants. Thinking the matter over I became convinced that without the Adam's Needle, *Yucca filamentosa*, the case was well nigh hopeless. Indigenous throughout the barren districts of our Southwest as to the disastrous effects of excessive heat and prolonged drought, yuccas are immune. That strong specimens by means of a deep rambling fleshy root system are able to retain

their normal vigorous growth in a bed thickly invested by privet roots is plainly shown by our illustration. Under normal conditions, however, for the reason of the stiff appearance of the swordlike evergreen foliage we do not plant hardy yuccas very often on mixed herbaceous borders. Employed as single specimens on the lawn, or mixed in along the outskirts of flowering shrub plantations seems to be more appropriate for full display of their stateliness and ornamentality when in bloom. The narrow leaved species, *Yucca angustifolia*, is well adapted for the rockgarden, while the variegated form of *Yucca filamentosa*, distinguished by creamy white marginal foliage, not coming true from seed, for the immediate future at least, is bound to remain a beautiful but rather rare acquisition appealing principally to the collector of plants. One of the best points of Adam's Needles is their remarkable longevity when left undisturbed. Large specimens are very difficult to move and seedlings usually don't bloom until they are from four to five years old. In the Middle Atlantic States yuccas survive the winters without protection while further north they need more or less covering.

RICHARD ROTHE.

Glenside, Pa.

land states. Messrs. Frost, Farquhar, Koster, Wyman and Craig gave their views on the subject at this time. It was voted unanimously to pass the resolution.

Wm. W. Colton, City Forester of Newton, read a paper on "Living

Monuments for our Soldiers," recommending the planting of trees by everybody, and felt that national memorial parks and forests should be established, also states and cities and individuals should do likewise on a smaller scale. "For every star a

tree" is the slogan used in Morrisville, Pa. F. W. Rane, State Forester of Massachusetts, did not recommend the planting of one tree, but whole forests.

C. H. Greation, of Providence, said that the outlook for 1919 was unusually good. The growing interest to decorate home grounds and trying to outdo one's neighbors in that respect was a great asset, all of which tends to bring more work for the nurserymen. He believed that all the good stock in the country would be called for this spring.

Among the slogans received for the Market Development campaign were "America Bountiful and Beautiful," "America the Beautiful," "True to Name, Free from Pest, Delivery Guaranteed."

Officers Elected.

Officers elected for the ensuing year are as follows: President, C. R. Burr, Manchester, Ct.; vice-president, Charles Adams, Springfield, Mass.; secretary, Richard M. Wyman, Framingham; treasurer, V. A. Vanicek, Newport, R. I.; executive committee, A. E. Robinson, Lexington; E. R. Coe, New Haven, Ct., and C. F. Dorr, Bar Harbor, Me.

Boston was chosen as the meeting place for 1920.

There was an interesting exhibit of the destructive work of the corn borer by the State Board of Agriculture. To date, there has been no possible means of control found that is at all economical. It is at present found in a territory of 300 square miles in the Eastern part of Massachusetts.

STATE FLORISTS' ASSOCIATION OF INDIANA.

The annual meeting of this association was held at the Claypool Hotel, Indianapolis, on January 14th. Quite a number of out of town guests were present. The E. G. Hill Company staged a beautiful vase of the new Rose Premier, and there were some excellent flowering plants shown by local growers. E. E. Temperly showed a new begonia named Christmas Gift, similar to Begonia Chatelaine. Fine roses were shown by W. Frank & Sons. Officers were elected as follows: president, Anders Rasmussen; first vice-president, Herbert Jung; second vice-president, E. E. Temperly; secretary, O. E. Steinkamp; treasurer, Chas. Pahud.

Govanstown, Md.—Wm. Patterson has bought two greenhouses from B. G. Merritt and will re-erect them on his own place.

CLUBS AND SOCIETIES

HORTICULTURAL SOCIETY OF NEW YORK.

A Spring Flower Show will be held March 28, 29 and 30, at the American Museum of Natural History. In order that this exhibition may be a success it will be necessary for all to put their shoulder to the wheel and do their bit. Co-operation is now the spirit of the age, and let horticulturists prove they are alive to this spirit by making this show a big success by individual effort and co-operation. All, whether members of the society or not, are invited to exhibit. Schedules are now ready for distribution, and may be had by addressing the secretary, George V. Nash, New York Botanical Garden, Bronx Park, New York City.

Schedule of Classes and Premiums.

PLANTS.

Non-commercial Growers

Group of Spring Flowering Plants, 100 sq. ft., arranged for effect; also group of Foliage Plants, 100 sq. ft. arranged for effect: 1st, \$100; 2d, \$50.

Group of Orchid Plants, 50 sq. ft., arranged for effect: 1st, \$50; 2d, \$25.

Acacia, three plants: 1st, \$12; 2d, \$6. Acacia, specimen; Amaryllis, twelve plants; Cineraria, six plants: 1st, \$6; 2d, \$3, in each class.

Cyclamen, twelve plants: 1st, \$8; 2d, \$4. Hydrangea, specimen; also Marguerite, specimen: 1st, \$3; 2d, \$2, in each class.

Primula malacoides, twelve plants; primula obconica, twelve plants; Schizanthus, six plants: 1st, \$6; 2d, \$3, in each class; also Schizanthus, specimen: 1st, \$3; 2d, \$2, in each class.

Commercial Growers

Group of Spring Flowering Plants, 150 sq. ft., arranged for effect; group of Orchid Plants, 100 sq. ft., arranged for effect: 1st, \$100; 2d, \$50.

BULBIOUS PLANTS.

Non-commercial Growers

Early Flowering Tulips, six pans, six varieties; Darwin, Breeder, or May-flowering Tulips, six pans, six varieties; Narcissus, six pans, six varieties; Lilies, six pots: 1st, \$4; 2d, \$2, in each class.

CUT FLOWERS.

Non-commercial Growers

Roses, 18 Ophelia or any Ophelia sport; also 18 Pink, Red, Yellow and White: 1st, \$3; 2d, \$2, in each class.

Carnations, 25 White, Flesh Pink, Light Pink, Dark Pink, Scarlet, Crimson and variegated: 1st, \$3; 2d, \$2, in each class.

Antirrhinum, 18 spikes; also Mignonette, 12 spikes: 1st, \$3; 2d, \$2, in each class.

Sweet Peas, 100 sprays: 1st, \$3; 2d, \$2.

Commercial Growers

Roses, 25 White, Light Pink, Dark Pink, Red, Yellow, Ophelia or any Ophelia sport: 1st, \$6; 2d, \$3, in each class; also 25 American Beauty: 1st, \$10; 2d, \$5.

Carnations, 50 White, Flesh Pink, Light Pink, Dark Pink, Scarlet, Crimson and Variegated: 1st, \$5; 2d, \$3, in each class.

GEORGE V. NASH, Secy.

A meeting of the executive committee of the American Dahlia Society has been called for the Grand Hotel, New York on February 10.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

At the January meeting of the Gardeners' & Florists' Club of Boston. Wm. J. Stewart was unanimously constituted a life member. Mr. Stewart was the first president of the organization and served in that capacity a second term later on when the American Carnation Society held its first convention in Boston.

Vigorous resolutions were passed condemning the plant embargo to supplement resolutions sent last February and same are being forwarded to Dr. Marlatt, Secretary Houston and the Massachusetts senators and representatives.

CLUB AND SOCIETY NOTES.

The Retail Florists of Buffalo, N. Y., held a banquet at the Iroquois Hotel, January 15.

The Gardeners' and Florists' Club of Baltimore will hereafter meet on the second Monday of each month.

The next meeting of the Albany Florists' Club will be held at the Cut Flower Exchange on February 6.

The annual dance of the Retail Florists' Club of Toronto will take place in Metropolitan Hall, February 5.

The next regular meeting of the Florists' Club of Washington, D. C., will be held February 4. At this session of the club nominations will be received of names for the election of officers which will take place at the March meeting. It is understood that there will be some competition for a number of the offices this year, and a contest is looked for.

The Morris County Gardeners' and Florists' Society of Madison, N. J., installed the following officers: President, Otto Koch; vice-president, Samuel Golding; treasurer, William H. Duckham; secretary, Edward Reagan; executive committee, David Gale, David Francis, Ernest Wild and Edwin Gregg. An exhibit was made by Anthony Sailor, of Primula malacoides and Primula obconica. They were awarded 88 and 85 points. Arrangements are under consideration for a celebration by a Victory dinner later on.

THE AMERICAN CARNATION SOCIETY

The American Carnation Society held its annual meeting in the Hollenden Hotel on January 29 and 30. The exhibit was staged in the ballroom of the hotel and the banquet was held on the evening of the 30th. Following is the address of President C. S. Strout of Biddeford, Me.

The President's Address.

It has been our privilege to meet in convention in this delightful city of Cleveland on former occasions. It is my pleasure to bid you hearty welcome to this twenty-eighth annual convention.

We are all conscious that the past year has been the most difficult year we have faced since our society was formed. The conditions produced by the Great War found us in a field of uncertainty, in which many of us were doubtful as to whether we should retrench and wait a more favorable time. The problem of Hamlet "To be or not to be" was ours. The air was filled with rumors of a coal shortage. Dame Rumor said the florists' business was to be shut down as a non-essential. To meet the situation, the American Carnation Society and the S. A. F. & O. H. sent a delegation to Washington and, partly as a result of their arguments, the dictum of the fuel administration was that growers using more than forty tons a year should be allotted fifty per cent of the average used for the past three years; those of forty tons or less, the full amount. Private growers were denied the use of coal.

The fuel shortage has not been an unmixed evil. To illustrate, one of our well known growers reduced his glass one-third, yet produced 30,000 more blooms than the previous year in the same period with all his glass. This he brought about by careful, intensive work and conservative use of fuel.

The spirit of patriotism among our younger men led them into the Army or Navy; the draft laid its hand upon some, and a labor shortage added its problem for many growers. Among those who entered the service of Uncle Sam being, our then President, W. J. Vesey, Jr., and David Ward, one of our Judges.

Like all other lines of business, we were affected by the scarcity of supplies and prevailing high prices. Difficulties

of transportation made the delivery of express companies uncertain. We were beset on all sides and to add to the story, the high percentage of sunless days has made the past year an exceedingly difficult one.

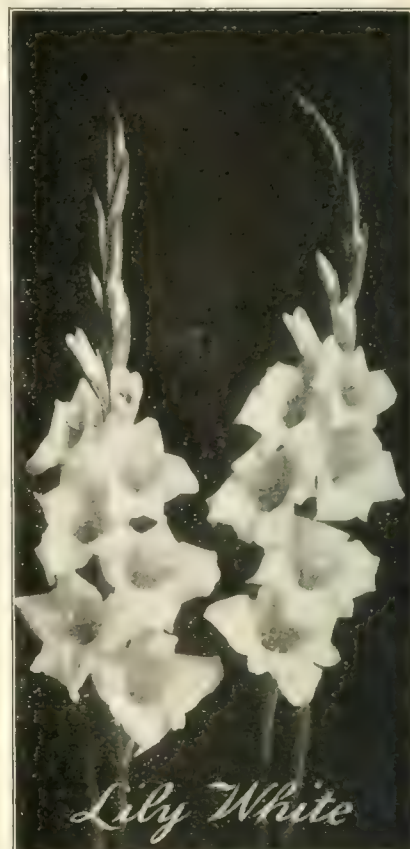
In spite of all, however, this has been one of the most profitable seasons for florists. The old law of supply and demand has led to higher average prices, and the phenomenal amount of sickness created a quick demand for all we could offer. The circle of clients has been largely increased by the advance in wages produced by special war work in shipbuilding, ammunition factories and mills. This increased demand has enabled both grower and retailer to secure a reasonable price and profit, and brings to our minds once again the question as to whether or not we can bring about a minimum and maximum price in the interests of both grower and retailer. These are days of co-operation; a league of interests should help us solve this question.

The fact that florists the country over have generously donated flowers to Red Cross drives and campaigns for Y. M. C. A., K. of C. and similar organizations indicates the spirit of patriotism and the opportunity for service outside our regular field of business. There are several growers of whom I know in New England who have each contributed flowers which have netted \$1,500 each for such work.

Early in November brought the glad tidings of the signing of the armistice and the removal of restrictions on travel, and with it our energetic secretary took up the plans for this convention. You are all well aware that the railway administration had frowned on gatherings similar to ours. Traveling was discouraged in every way, and our plans had been more or less tentative. Thanks to the executive ability of Mr. Baur and the interest of the local committee on arrangements, there is every indication of one of the most successful anniversaries we have had.

It has seemed to me that the phenomenal circumstances under which we have labored the past year called for review for permanent record.

Believing it will meet with the approval of this Society, I suggest to you that steps be taken to furnish fitting recognition of the members of the Society who have entered the



This is the coming florist early all white forcing Gladiolus. We have no stock to offer to the trade this season, but will have a small surplus this coming autumn. If you want an ideal florist all white Gladiolus, send us your address and we will mail you our trade circular when issued.

A. E. KUNDERD
GOSHEN, IND.

service of the United States. What form this recognition should take I think could readily be determined by a committee appointed for the purpose.

As an aid in reconstruction and as a mark of our respect and sympathy for our brave allies, I would suggest that this Society correspond with French Floral Societies and offer them carnation stock to replace that destroyed by the ravages of war. I am sure individual growers will be happy to send stock for this purpose.

I further recommend that the American Carnation Society go on record as urging carnation growers in groups or sections to try for more uniform prices and more accurate grading of stock.

Well grown carnations are worth the average price paid this season, and all things considered, should command a better price than has been paid in the past few seasons. But the extreme prices, high or low, demoralize the

market and react unfavorably on all branches of our business. Growers and retailers can improve the present conditions and perhaps the American Carnation Society can aid in the matter.

Secretary's Report.

The past year has been a memorable one for the carnation industry. On account of the uncertainty in business generally, the restrictions imposed by the government in the early part, and the subsequent release from all restraint towards its close, there has been a chaotic condition running through the entire year. The depression caused by the restrictions was reflected clearly in the lack of enthusiasm among the craft and this naturally affected the interest shown in the activities of the trade societies. At the time of the Boston convention, in January, 1918, conditions were at their worst, resulting in a convention which was almost entirely local and while our New England members staged a splendid exhibition, the benefits accruing from a large and enthusiastic attendance were lacking. Receipts fell off, while prices on everything needed by the society advanced, causing a depletion of the treasury which gave more or less concern. The printing of the annual report had to be deferred, pending the collection of sufficient funds, but thanks to the generosity of our President and a number of our New England members, who contributed some \$60.00, the report appeared only three months late. It is gratifying to note, however, that since the great revival of business, due to the return of peace and the extraordinary demand caused by the influenza epidemic, our members are showing a quickened interest in the affairs of the society. Receipts have increased to such an extent that the year's total receipts are about normal, but still not enough to cover the increase in expenditures. It is hoped that the saving effected in the coming year's expenditures may be sufficient to put the treasury back to a normal condition.

During the past year we have collected from:

Membership assessments.....	\$628.00
Advertising	150.20
Miscellaneous	96.00
	<u>\$874.20</u>

all of which was turned over to the treasurer and his receipts taken therefor. The books of the secretary and treasurer were audited by a public accountant and found correct, the auditor's report being submitted along with these reports.

A complete list of our members was submitted to the S. A. F. & O. H., who

reported that 223 of our members are also members in that society, entitling us to representation on their Executive Board. President Strout has been appointed to represent our society on that board during the year 1919. A change was made in the conditions for filling this office, enabling the vice-president to serve in case the president is unable to serve.

The National Flower Show, which was to have been held in Saint Louis, Mo., last spring, was postponed indefinitely. The preliminary expenses incurred on account of this proposed exhibition, less the profits from the convention held there in August, were \$5,984.95. Ten per cent. of this amount is charged up against our society and remains a liability until the Fifth National Flower Show is held, after which a final accounting is to be made. The S. A. F. & O. H. has agreed to carry this liability until that time.

The summer meeting of the board of directors was set for November, in order to gauge better the conditions that would likely prevail at the time of this convention. The influenza epidemic prevented a meeting at that time and the meeting was finally dispensed with altogether, the arrangements for this convention being made by mail.

On account of the unsatisfactory express services and the scarcity of stock, the board deemed it inadvisable to attempt an exhibition of the size and scope of former years. The premium schedule was modified in such a way as to encourage the staging of the new varieties, with a few classes for the standard sorts. This list was later augmented by a number of open classes, for which the Cleveland Florists Club agreed to stand sponsor. This change is intended for only this year's exhibition, in the hope that a return may be made to normal conditions during the present year.

Our convention being the first meeting of national scope since the signing of the armistice, the Board invited the S. A. F. & O. H. to join us in a peace celebration at our banquet. This invitation was accepted and arrangements have been made to carry out the idea. This society may take just pride in the fact that a number of our members went into the military service and give thanks to a divine providence for their safe return. No casualties among our members have been reported up to the present time.

There were submitted, during the past year, for registration, three seedlings and one sport. No registrations were sent over from Europe.

To the trade press is due our thanks, for the publication of all matter sent to them. They have been of material

assistance to the society during the past year.

A. F. J. BAUR.

Treasurer's Report, January 18, 1919.

GENERAL FUND. CASH RECEIPTS.

Balance Jan. 18, 1918.....	\$406.28
Cash from Sec. A. F. J. Baur.....	\$874.22
Int. from Permanent Fund.....	106.04
Int. from Memorial Fund.....	40.50
	<u>1,026.76</u>
	\$1,487.04

DISBURSEMENTS.

Orders paid No. 714 to No. 738 inclusive	\$874.62
Balance, cash in bank.....	612.42
	<u>\$1,487.04</u>

PERMANENT FUND. RECEIPTS.

Balance Jan. 18, 1918.....	\$2,625.31
Interest Jan. 1, 1919.....	106.04
	<u>\$2,731.35</u>

DISBURSEMENTS.

Interest transferred to Gen. Fund.....	\$106.04
Balance Jan. 18, 1919.....	2,625.31
	<u>\$2,731.35</u>

DORNER MEMORIAL FUND. RECEIPTS.

Balance Jan. 18, 1918.....	\$1,002.97
Interest Jan. 1, 1919.....	40.50
	<u>\$1,043.47</u>

DISBURSEMENTS.

Interest transferred to Gen. Fund for medal	\$40.50
Balance Jan. 18, 1919.....	1,002.97
	<u>\$1,043.47</u>

Total cash on hand Jan. 18, 1919, deposited as follows:	
First Merchants National Bank, General Fund.....	\$612.42
Lafayette Loan & Trust Co., Permanent Fund	2,625.31
Lafayette Loan & Trust Co., Dorner Memorial Fund.....	1,002.97
	<u>\$4,240.70</u>

F. E. DORNER, Treas.

BETTER SERVICE CAMPAIGN.

A nation-wide effort to reduce the amount of waste attributed to inadequate packing, wrapping and marking of express shipments, is about to be undertaken by the 135,000 men and women employed in the express business. As a means to this end, plans of a most comprehensive nature have been made by the American Railway Express Company, which is operating the express business on all the railroads of the country, to bring about conditions which will make possible a marked improvement in the express service. A "Better Service Campaign" will start on February 10 in every city and town in the country.

No new packing or marking rules have been adopted for the campaign, but express drivers and receiving clerks at the larger points, express agents at the smaller places, including those employed jointly by the express company and the United States Railroad Administration, as well as messengers in the cars, will be instructed hereafter, to insist that the rules already in force be more carefully followed. At the same time, all express employes will be urged to see that rough handling and mis-routing are avoided after packages leave the hands of the shippers.

THE CULTURE OF CONIFERS

"The Culture of Conifers" was the subject of a lecture in Horticultural Hall, Boston, Saturday afternoon, Jan. 18, by A. H. Hill, of Dundee, Ill. Mr. Hill divided his subject into four general divisions as follows: Seedlings, cuttings, grafts and layers and divisions. He said, in part:

"In the growing of conifer seedlings, generally speaking, the first point of importance in mapping out plans for production on a commercial scale is to locate a reliable and unfailing source of seed. It is easy enough to talk about producing a million little conifer seedlings, but in order to make this possible there must be seed of good quality and plenty of it. At first thought, it would seem easy to secure the seed necessary, when one thinks of the native evergreen forests with their range covering the whole country. The problem, however, is different from that which confronts the farmer when he wants wheat or agricultural seeds.

"Too much importance cannot be laid on the necessity of obtaining strains of seeds from the localities which produce the best and hardiest types, and this requires constant research, traveling, and experiments. We have had collectors ship several hundred pounds of Juniperus berries, and not a berry in the consignment contained a live germ. It requires two years for the berries of some of the juniper varieties to develop.

Collecting the Cones, the Cutting Test, Time for Sowing, Windbreaks for Protection and Reproduction by Cuttings were all treated in full detail.

He said in conclusion: "Right here in America there is a loyal, brave little band of growers who are entitled to encouragement and support. They have struggled on for years with hardly any recognition. There are more than a hundred propagating firms in America, big and little, who, with a halfway, fair chance at their own market, would have been world-famous. I mention such names as Jackson Dawson, J. R. Trumpy, Josiah Hoopes, Robert Douglas, Berckman's, Farquhar's, Meehan's, Robert George, E. Y. Teas, E. M. Sherman, Ellwanger & Barry, Thomas McBeth, F. M. Carr, who have supplied American horticulture with traditions rich with accomplishment. We have only to look back to the horticultural achievements of thirty and forty years ago when Parsons' Nurseries at Flushing, N. Y., were supplying the growers of Europe with choice hardy varieties of conifers and rhododendrons, which are to-

Best Young Trees for Nurserymen

From **Little Tree Farms** at Framingham, Mass. We have millions of growing Evergreen and Deciduous trees, complete in grades and sizes, to select from.

Write for Wholesale Price List of

Seedlings and Transplants of Firs, Junipers, Arborvitae, Pines, Spruces, Maples, Ash, Oaks, Lindens, Elms, etc.



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ROSES

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Breck-Robinson Nursery Co., LEXINGTON, MASS.

day, in many cases, the sorts grown in Europe for export to America.

"The United States Department of Agriculture, through the Forest Service, has established in various parts of the west Government nurseries for supplying young trees for reforestation, and eight individual states maintain State nurseries to supply material for planting State-controlled lands and for distribution to property owners.

GREENHOUSES CONTEMPLATED.

Toronto, Ont.—Simmons & Son.

Indiana, Pa.—S. S. Daubenspeck, one house.

Ruthven, Ont.—Wm. Topping & Son, one house.

Brampton, Ont.—Mark Henderson, enlarging.

Indianapolis, Ind.—Martin Brandlein, to rebuild one house.

ST. LOUIS.

A movement is on foot to hold a flower show this fall.

H. G. Berning and wife, Fred Ammann and Dave Geddes are among those who will attend the Cleveland Carnation Convention.

Invitations are out for the Victory Banquet to be given by the florists of this vicinity, Wednesday evening, Feb. 5th, at 7.30 p. m., at Planters Hotel. Good entertainers are to be provided.

The annual meeting of the Rhode Island Horticultural Society was held January 15 and the following officers were elected: President, E. A. Burlingame; first vice-president, Prof. John E. Hill; second vice-president, Alexander Macrae; secretary, E. K. Thomas; treasurer, I. F. Chase; trustee for three years, Thomas Hope. The speaker of the evening was Prof. John G. Jack of the Arnold Arboretum, Jamaica Plain, Mass.

NEWS NOTES.

Huntington, N. Y.—Mrs. A. C. Cheney has sold to Herman Anderson an estate comprising 25 acres of land, greenhouses, etc.

Montreal, P. Q.—We are very sorry to learn of the destruction by fire of the range of greenhouses of McKenna, Ltd., Montreal P. Q., on the night of Sunday, January 12. Loss on the greenhouses estimated at \$10,000. This does not include loss from the killing of plants.

Albany, N. Y.—Fifteen Albany florists met in the Hampton Hotel, Jan. 22, and formed the Albany Retail Florists' Association. Dinner followed the election of officers. The florists will meet in the Hampton later to install officers and complete the organization. The following were elected: President, W. C. Gloeckner; vice-president, W. C. Kurth; secretary, C. P. Tracey; treasurer, Howard D. Menand.

PATENTS GRANTED.

1,287,413. Combination Tool. Joseph A. Parrella, Washington, D. C.

1,287,749. Soil-Pulverizer. George E. Rehberger, Phoenix, Md.

1,287,803. Garden-Tractor. Joseph Webb, Cincinnati, Ohio.

1,287,840. Lawn-Trimmed. Anton C. Berg, White Bear, Minn.

1,288,194. Plant-Setter. Arthur W. Reeks, Upper Montclair, N. J.

1,288,241. Cultivator. James Simrall, Glass, Miss.

1,288,321. Weed-Cutter. Frederick F. Weaver, Cheney, Wash.

Visitors' Register

New York: B. L. Elliott, Pittsburgh, Pa.

Philadelphia — P. Welch, Welch Bros., Boston, Mass.; M. Henry, Henry & Lee, New York City; T. O'Connor, Providence, R. I.

Cincinnati—Mr. Geddis, St. Louis, Mo.; Earl Mann and Fred Lemon, Richmond, Ind.; C. Meinann, New York; Mr. and Mrs. Frank Friedley, Cleveland, O.; Samuel E. Quint, Allston, Mass.; Albert Kramer, Dayton, O., and E. Amann, Newark, N. J.

Boston—Robt. Pyle, West Grove, Pa.; E. W. Breed, Clinton, Mass.; E. J. Canning, Northampton, Mass.; Chas. H. Greateon, Providence, R. I.; A. P. Horne, Manchester, N. H.; J. J. McManmon, Lowell, Mass.; W. H. Thurlow, West Newbury, Mass.; J. K. Alexander, Bridgewater, Mass.; James Wheeler, Natick, Mass.; F. F. Rockwell, New York. P. Koster, Boskoop, Holland; Edw. Moon, Morrisville, Pa.; C. R. Burr, Manchester, Ct.; W. A. Vanicek, Newport, R. I.; J. Horace McFarland, Harrisburg, Pa.; W. H. Wyman, North Abington, Mass.; E. F. Coe, New Haven, Ct.; Chas. Adams, Springfield, Mass.; F. S. Baker, Cheshire, Ct.

HATS OFF TO EDWARD C. DUNGAN

If you want to reawaken your old love for gardening get a copy of this year's Maule catalogue and look it through. If there is any poetry in your soul it will rise and go to your head and a-gardening you will go right away. Beautifully illustrated, tersely and charmingly written, intelligently arranged—a boon and a blessing to amateur and professional alike. I seldom say anything about the many handsome seed books I receive, but this one is so unique and so fine that an exception is in order. Hats off to Edward C. Dungan.

G. C. WATSON.

BUSINESS TROUBLES.

Milwaukee, Wis.—Thomas Plecieniezak. Liabilities given as \$21,644.13 and net assets \$541.43.

Newtonville, Mass.—George W. Harris, florist, 541 California street, has filed a petition in bankruptcy. Liabilities, \$5,633; assets, \$4,342.

Toronto, Ont.—The Allen Florist has been closed up.

FERN SEEDLINGS IN FLATS

FOR DELIVERY AFTER JUNE 1st

The prospects now are that there will be no surplus of Fern Seedlings for the coming season. We are now bookings orders for delivery after June 1st. You will make no mistake in anticipating your requirements by placing your order now.

These flats contain about two hundred plants each, only one variety being in a flat, and we cannot supply less than a full flat of any one sort.

Adiantum Cuneatum	Pteris Grandis
Aspidium Tsussinense	" Magnifica
Cyrtomium Fortunei	" Mayii
" Caryotidium	" Multiceps
" Rochfordianum	" Ouvardii
Lastrea Chrysoloba	" Rivertoniana
Onychium Japonicum	" Serrulata
Pteris Adiantoides	" " Cristata
" Alexandrae	" Tremula
" Argyraea	" Victorine
" Cretica Albo Lineata	" Wilsonii
Pteris Wimsettii	

Any of the above varieties at \$2.00 per flat. We cannot supply less than a full flat of a variety.

We also offer a limited stock of Adiantum Hybridum and seedling plants of Polypodium Mandaianum in flats at \$3.00 per flat.

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SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, F. W. Bolgiano, Washington, D. C.; First Vice-President, Wm. G. Scarlett, Baltimore, Md.; Second Vice-President, David Burpee, Philadelphia, Pa.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

Department Seed Experts Visit Europe.

The United States Department of Agriculture has sent two of its experts to Europe to secure information concerning clover, grass, and vegetable seed stocks and requirements in the various European countries.

These men—Dr. A. J. Pieters, of the Bureau of Plant Industry, and W. A. Wheeler, of the Bureau of Markets—sailed for Europe December 30. They expect to visit Great Britain, France, Belgium, Italy, Holland, and Denmark, and the immediately important matters of information that they gather will be cabled to Washington for use by the Department of Agriculture, the War Trade Board, and other governmental agencies in shaping the export policy as to certain kinds of seed. The information will then be disseminated to the seed trade in order that a better general idea may be had of the probable future requirements for field and vegetable seed.

Conservation Need Indicated.

Indications are that the supplies of several kinds of seed in this country must be carefully conserved in order to maintain crop production. At the same time it appears that it may be necessary for the United States to take chances on incurring a shortage of some kinds of seeds in order to meet the pressing needs of the nations that were associated with this country in the war.

Up to this time there is no definite information available as to the needs of Great Britain, France, Italy, and Belgium for various kinds of seeds. Holland, Denmark, and other neutral countries very likely have considerable surpluses of certain kinds of seeds ready for export to the United States and may at the same time need some kinds of which this country has a surplus. That information, it is expected, will be forthcoming from Dr. Pieters, the forage-crop expert, and Mr. Wheeler, the seed-trade expert.

More Seed Grown During War

Seed production has been carried forward on a larger scale in the United States during the past few years than

FOUR NEW GIANT STOCKS

GREENHOUSE SAVED SEED

LENOX PINK

LENOX MAUVE

LENOX WHITE

Each color separate. Tr. pkt. 25c.; 1/8 oz. \$1.25

The LENOX STOCKS are great improvements on the Beauty of Nice Strain. They bloom in four to five months from sowing and under good cultivation, (disbudded), attain a height of 2½ to 3 feet, producing a gigantic flower spike bearing beautiful large double flowers, the actual seed offered above has produced as much as 85% doubles.

Arthur C. Boddington Co., Inc.

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ever before. Early in the war it became apparent that seed production was very largely at a standstill in most of the European countries and that with the great obstacles to ocean transportation the comparatively small quantities that were produced could not be brought across. Seed growers in the United States undertook to extend their production both as to quantity and varieties, and the result has been that many of them who were formerly importers have now become exporters. Indications are that there is a considerable surplus of several kinds of seeds, and growers are at a loss to know whether to increase or decrease their acreage or to maintain it at last year's standard. A study of conditions in this country alone would not suffice to answer these questions, but must be supplemented with the information now about to be gathered in the countries of Europe.

Government Help Needed.

Perhaps no line of business was more deeply disturbed by the war than that of seed growing and distribution. Many agencies were paralyzed, and the machinery of the seed trade on the Continent of Europe continues so disrupted as to make the interchange of seeds needed for next spring's planting very difficult. Seed growers and dealers feel that individual initiative has been practically exhausted and that during the period of reconstruction the work should be carried forward through Government agencies. It was largely in response to this demand that Dr. Pieters and Mr. Wheeler were sent to Europe by the Department of Agriculture to make a first-hand study of seed production and marketing problems.

MAULE'S SEEDS AND BULBS

Write for our 1919 Special Price List for Market Gardeners and Florists.

WM. HENRY MAULE, Inc.

21st and Arch Sts., Philadelphia, Pa.

TO TEST DAHLIA VARIETIES.

The American Dahlia Society has made arrangements to establish a test garden for new dahlias at Connecticut Agricultural College at Storrs. The garden will be under the direction of G. W. Fraser, instructor in floriculture.

The object of the plan is to test new varieties of dahlias not yet listed or commercialized and to score and classify them. This will make it possible for anyone having a new variety to introduce, or a new seedling of promise, to have it tested and compared with others growing under the same conditions. At the end of the season the varieties will be scored and classified according to their respective merits and the A. D. S. certificate of merit will be awarded to those scoring the required number of points.

The American Dahlia Society has test gardens at Geneva, N. Y., and at the University of Minnesota at St. Paul, Minn. The U. S. Department of Agriculture may establish one next year at Arlington Farm.

The fourteenth annual convention of the Tennessee State Florists' Association, Tennessee State Horticultural Society, Tennessee State Nurserymen's Association and Tennessee Beekeepers' Association was held January 28th, 29th, 30th and 31st, at Nashville, Tennessee, and a most interesting program of events was carried out.

THE ONION FLY.

The Onion fly is rather smaller than the ordinary house fly, which it very much resembles. It hatches about the first week in May from a chrysalis which has remained in the ground all the winter, and commences laying its eggs on the onion plant about a week later. The eggs require a little moisture to assist hatching, consequently when deposited during dry weather they remain dormant until the first wet day, when they quickly hatch and the grubs begin to eat their way into the tiny bulb. The fly cannot survive frost, and if frost or very cold weather occurs just after the grubs are hatched many are destroyed before they have time to do any damage. This is the reason why the pest is not so troublesome in some seasons as in others. The fly is guided to the onion by the sense of smell, and an unhealthy plant or one that has been attacked by wire-worm or other ground insect always seems to be the first attacked. It is by obliterating the smell of the onion that such things as soot or paraffin are useful. After the grubs are fully grown, which takes two or three weeks, they leave the onion and bury themselves in the ground at a depth varying according to the condition of the soil, but seldom more than 6 inches. Before the grubs leave the onion they may be killed by paraffin emulsion at a strength of one in ten; this specific will not harm the onions, but will kill the grub if it reaches them in less than an hour. In preparing soil for an onion bed it is a good plan to trench it two spits deep and very carefully bury the top spit, in which most of the chrysalids harbor, for as the fly emerges directly from the chrysalis it cannot emerge through, say, 12 inches of soil, and so it perishes. Directly the first flies make their appearance efforts should be made to poison them. Their ordinary food is pollen and decaying vegetable refuse, but they are very fond of anything sweet, and can be easily poisoned by placing ordinary fly-papers soaked in sweetened water in saucers between the rows of onions during fine weather. They can also be caught on ordinary sticky fly-papers stretched between the rows. By poisoning or catching the first few flies, more can be done to prevent the ravages of the grubs than all the deterrents put together. Without doubt the best way for anyone who cannot succeed is to refrain from growing onions for one year, as the pest would then die out, and although flies do migrate to some extent, there would be insufficient to

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PEAS, BEANS, CORN AND VEGETABLE SEEDS
of all kinds in quantity and of highest quality.

Glad to quote for present delivery or on growing contract for crop of 1919.

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"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes
Park, London, England. Send for Catalogue
CARTERS TESTED SEEDS, Inc., 166 Chamber of
Commerce Bldg., Boston, Mass.

destroy a crop grown, say, one hundred yards from where they were grown the previous year. These methods can also be applied to the Carrot fly and the Cabbage root maggot fly with equal success.

W. Robinson in *Gardeners' Chronicle*.

NEW CORPORATIONS.

Pittsfield, Mass.—The Flower Shop,
40 Fenn street.

Memphis, Tenn.—Johnson Bros.
Capital stock \$20,000.

SEED TRADE NOTES.

Howard M. Earl, who is now with the Jerome B. Rice Co., sailed for Europe this week.

A new seed store has been opened by W. J. Skillicorn at 102 Hudson avenue, Albany, N. Y.

H. Pare, formerly with Dupuy & Ferguson, has opened a new seed store at 360 Dorchester street, Montreal, P. Q.

✱

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National Capitol

At your service to deliver Flowers
or Designs on Order by Tele-
graph or otherwise. Prompt
Reliable Service.

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Deliver orders from any part of the country to

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Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—The Rosery, 23 Steuben St.
Albany, N. Y.—Danker.

Bangor, Me.—Adam Sekenger, 32 New-
bury St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont St.

Brooklyn, N. Y.—Wilson, 3-5 Greene Ave.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.

Cambridge, Mass.—John McKenzie, 1927
Mass. Ave.

Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th
St.

Cleveland, O.—The Smith & Fettes Co.,
735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643
Broadway.

Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.

East Orange, N. J.—Smith, The Florist.

Fall River, Mass.—Warburton, 495 New
Boston Rd. and 36 N. Main St.

Fishkill, N. Y.—Wood Bros.

Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Young & Nugent, 42 W. 28th.

New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.

New York—Dards, N. E. corner 44th St.
and Madison Ave.

New York—G. E. M. Stumpp, 761 Fifth
Ave.

New York—Kottmiller, 426 Madison Ave.
and 49th St., also Vanderbilt Hotel.

New York—Max Schling, 785 Fifth Ave.

New York—Bloomingdale's (C. C. Trepel,
Prop.), Lexington Ave. and 59th St.

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Orders from the Trade for Deliveries
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NO ORDERS ACCEPTED FOR LESS
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Deliveries to Steamers and all Eastern Ports

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Complete Stock. Regular discount to Trade.
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Flowers of Every Kind in Season

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Will take good care of your orders
Members of F. T. D. Association.

Retail Deliveries
to central Hudson River points, on
Telegraphic Order.
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FISHKILL, N. Y.

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440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
stock and prompt deliveries in BUFFALO,
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HARRY I. RANDALL, Proprietor.
Member Florists' Telegraph Delivery

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Farnum St.

Philadelphia—Chas. H. Grakelow, Broad
St. at Cumberland.

Providence, R. I.—Johnston Bros., 38
Dorrance St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave. N.

St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.

St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. R. Pler-
son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.

Worcester, Mass.—Randall's Flower Shop,
22 Pearl St.

New York—Thos. F. Galvin, Fifth Ave.,
at 46th St.

NEW FLOWER STORES.

New York—Smith & Weninger, 406
E. 167 street.

Billings, Mont.—Mrs. H. W. Smith,
store originally occupied by the Bil-
lings Floral Co.

Albany, N. Y.—New York Floral Co.,
37 So. Pearl street, C. Cholakes, New
York City, Prop.

NEWS NOTES.

Loomis, Cal.—W. H. Hawkins has
purchased the Russell's Floral Gar-
dens.

Akron, O.—The florist establishment
of James Salmon & Son has been
closed.

Omaha, Neb.—Treas. J. B. Hess of
the S. A. F., accompanied by Frank
Stuppy, have been enjoying a rest and
recuperation at Excelsior Springs, Mo.

Carlisle, Pa.—The entire contents of
the greenhouse of John E. Dewalt
were frozen one night recently, due
to a breakdown in the heating equip-
ment. Loss \$1,500.

Beacon, N. Y.—Benjamin Hammond
has been appointed chairman of a
general committee to arrange for a
proper welcome home to the return-
ing soldiers and sailors of Beacon and
vicinity.

Quality and Reliability
WARBURTON
FALL RIVER, MASS.

Deliveries of Flowers and Plants
in FALL RIVER and contiguous
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and South Orange, also Glen Ridge, Mont-
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ROOTED CARNATION CUTTINGS

We have ready for immediately delivery in large quantity

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Can also furnish most any other variety.

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2 Winthrop Square and 32 Otis Street, BOSTON, MASS.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Jan. 30		ST. LOUIS Jan. 27		PHILA. Jan. 27	
Roses						
Am Beauty, Special.....	50.00	to 75.00	50.00	to 60.00	80.00	to 90.00
" Fancy and Extra.....	35.00	to 50.00	30.00	to 40.00	60.00	to 75.00
" No. 1 and culls.....	10.00	to 20.00	12.00	to 20.00	35.00	to 50.00
Russell.....	15.00	to 35.00	15.00	to 40.00	25.00	to 50.00
Hadley.....	15.00	to 35.00	5.00	to 10.00	10.00	to 40.00
Mock, Key.....	15.00	to 35.00	5.00	to 25.00	.....	to
Arenberg, Hoosier Beauty.....	14.00	to 35.00	10.00	to 15.00	18.00	to 30.00
Ward, Hillingdon.....	15.00	to 35.00	8.00	to 10.00	.....	to
Killarney, Key, Taft.....	15.00	to 35.00	8.00	to 15.00	10.00	to 25.00
Ophelia, Sunburst.....	15.00	to 35.00	10.00	to 20.00	10.00	to 25.00
Carnations	8.00	to 12.00	6.00	to 8.00	8.00	to 1.00
Cattleyas	50.00	to 75.00	.....	to 100.00	60.00	to 75.00
Lilies, Longiflorum.....	25.00	to 35.00	.....	to 25.00	25.00	to 30.00
Lilies, Speciosum.....	8.00	to 20.00	.....	to	5.00	to 8.00
Lily of the Valley.....	4.00	to 8.00	8.00	to 10.00	.....	to
Snaptagon.....	8.00	to 12.00	8.00	to 15.00	15.00	to 20.00
Violets.....	.75	to 1.50	.50	to .....	.....	to 2.00
Narcissus.....	4.00	to 6.00	.....	to .....	.....	to
Calendula.....	2.00	to 4.00	.....	to	6.00	to 8.00
Sweet Peas.....	2.00	to 4.00	.75	to 1.50	1.50	to 4.00
Gardenias.....	.....	to 100.00	.....	to .....	.....	to 50.00
Adiantum.....	1.00	to 1.50	.....	to 1.00	1.50	to 2.00
Smilax.....	.....	to 25.00	.....	to 25.00	25.00	to 30.00
Asparagus Plumosus, & Spren. (100 Bchs.).....	35.00	to 50.00	50.00	to 100.00	50.00	to 60.00

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184 North Wabash Avenue, CHICAGO

Wholesale Growers of Cut Flowers

ROSES, CARNATIONS

AND ALL OTHER SEASONABLE STOCK

Shipping orders have most careful attention always

WILLIAM F. KASTING Co.

Wholesale Florists

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Flower Market Reports

Weather conditions for **BOSTON** the past few weeks is certainly showing its effect on the market in the general supply. Roses have been off crop for several days although what stock is being sent in is of excellent quality. Carnations are also good and while the supply does not always meet the demand prices still hold firm. Lilies are still scarce, but bulbous stock is more plentiful and prices range high. Violets are the one feature that drag on the market. The situation as a whole is satisfactory as there is hardly any stock left over from day to day.

Extreme scarcity of **CHICAGO** stock continues to be the dominant note in the condition of the market. The large number of idle greenhouses caused by the experiences of last year, when every day brought fear that the fires must go out, and the desire to conserve coal that the war might more speedily be won, is now resulting in a shortage of stock not known before to florists, even those longest in the business. Nor does it seem likely that there will be a change in the near future. Roses are off crop and orders are cut down frequently one-third and prices are away up. Carnations, usually away ahead of demand at this time, are bringing unheard of prices. All miscellaneous stock is in great demand and in short supply.

Business has been **CLEVELAND** considerably larger than at this time last year. There has been a demand for white roses and lily of the valley that the market could not supply. There is plenty of all seasonable stock except roses, which continue scarce, particularly in the medium and short grades. The local output of carnations is heavy with quality fairly good. Paper whites are in oversupply but yellow narcissi scarce. Receipts of callas are liberal, but lilies are decidedly short. Sweet peas are gradually assuming their place of importance, but as yet, are not equal to the demand. Hudson River violets are arriving a day late and are moving very slowly. All greens are plentiful except adiantum, and according to reports from the growers, it will be some time before the cuts become normal again. There is a decided dearth of such miscellaneous stock as calendulas, forget-me-nots and mignonette. A few Roman hyacinths are to be had. Beauties are in moderate

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Jan. 27		CHICAGO Jan. 27		BUFFALO Jan. 27		PITTSBURG Jan. 27	
Roses								
Am. Beauty, Special.....	30.00	to 75.00	.....	to 100.00	60.00	to 75.00	50.00	to 60.00
" Fancy and Extra.....	30.00	to 40.00	60.00	to 75.00	25.00	to 50.00	25.00	to 40.00
" No. 1 and culls.....	8.00	to 25.00	10.00	to 40.00	5.00	to 20.00	6.00	to 20.00
Russell.....	15.00	to 30.00	10.00	to 75.00	8.00	to 30.00	10.00	to 25.00
Hadley.....	15.00	to 25.00	15.00	to 25.00	8.00	to 15.00	.....	to
Euler, Mock.....	15.00	to 25.00	15.00	to 25.00	6.00	to 10.00	.....	to
Arenberg, Hoosier Beauty.....	10.00	to 20.00	8.00	to 35.00	6.00	to 10.00	.....	to
Ward, Hillingdon.....	8.00	to 15.00	8.00	to 25.00	6.00	to 8.00	6.00	to 15.00
Killarney, Key, Taft.....	8.00	to 15.00	8.00	to 25.00	6.00	to 15.00	6.00	to 15.00
Ophelia, Sunburst.....	8.00	to 25.00	10.00	to 35.00	6.00	to 15.00	8.00	to 25.00
Carnations	4.00	to 8.00	3.00	to 6.00	4.00	to 7.00	4.00	to 6.00
Cattleyas.....	60.00	to 75.00	60.00	to 75.00	60.00	to 75.00	50.00	to 60.00
Lilies, Longiflorum.....	.....	to 20.00	15.00	to 20.00	15.00	to 20.00	20.00	to 25.00
Lilies, Speciosum.....	.....	to .....	.....	to	8.00	to 10.00	.....	to
Lily of the Valley.....	.....	to 8.00	8.00	to 10.00	8.00	to 12.00	8.00	to 12.00
Snapdragon.....	12.00	to 20.00	10.00	to 12.00	6.00	to 12.00	6.00	to 8.00
Violets.....	1.00	to 1.50	1.50	to 2.00	1.00	to 1.50	.75	to 1.25
Narcissus.....	.....	to 6.00	8.00	to 10.00	4.00	to 6.00	.....	to
Calendula.....	4.00	to 5.00	4.00	to 6.00	4.00	to 6.00	4.00	to 6.00
Sweet Peas.....	1.50	to 2.00	2.00	to 3.00	2.00	to 4.00	1.00	to 3.00
Gardenias.....	.....	to	50.00	to 75.00	20.00	to 25.00	.....	to
Adiantum.....	1.00	to 1.50	1.50	to 2.00	1.25	to 2.50	1.50	to 2.00
Smilax.....	20.00	to 25.00	20.00	to 25.00	20.00	to 25.00	.....	to 20.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00	to 50.00	50.00	to 75.00	35.00	to 50.00	30.00	to 60.00

supply and clean up early in the day. Sufficient cattleyas are available to take care of the demand. Prices of all stock remain firm, the only item that has suffered a decline being paper whites.

Business is excellent, **CINCINNATI** the demand is steady and active and is keeping the market cleaned up from day to day. Prices are good. The shipping demand continues heavy. The supply of roses continues to be rather meagre. Those that do come into the market clean up quickly at top prices. The cut of carnations is fair and is finding a ready sale. Easter lilies are selling well. Rubrum lilies and callas find a good market. Bulbous stock including paper white and yellow narcissus, Dutch hyacinths and freesia is proving good property. A few snapdragon that come into the wholesale houses meet with a good demand. The sweet pea cut has become fairly heavy and are cleaning up regularly. Orchids are meeting with a good demand. Other offerings are lily of the valley, violets, calendula, mignonette, forget-me-not, wallflower and baby primrose.

The only change **PHILADELPHIA** in the market here worthy of speaking of occurred a few days ago —after P. Welch of Boston blew into our midst. Then prices went up a notch or two. It is only fair to say, however, that the advance took place after, not before, the foxy one from Devonshire street had his wants supplied. Looks like an Indian proposition. Sneaks in, gathers up everything reasonable in sight, then when the regular boarder comes down for his breakfast, there ain't any—except at fancy prices. So the tax falls on the poor Philadelphia buyers and Boston gets away with the goods. The

Vigilance Committee ought to get busy.

The market during **ROCHESTER** the past week has not been very brisk.

There has been a shortage of flowers, roses of nearly all varieties being scarce and very high in price. Calla lilies are in supply but there is a scarcity of Easter lilies. The supply of carnations is fair. There has been a shortage on violets, the supply not being able to meet the demand. The early crop of freesia is about over, some good jonquils, paper whites and yellow narcissus are seen and the supply of bulbous plants as a rule is good and sell easily. Cyclamen and begonia are off crop. Greens are fairly plentiful.

Bright sunshine with **ST. LOUIS** moderate temperature has been the condition of the past week. Flowers in all varieties have held a stiff market and at no time has there been a surplus either in carnations or roses. Violets and sweet peas have held their own together with bulbous stock and there has also been a brisk demand for greens.

Stock has increased **WASHINGTON** somewhat in supply but there has been enough added business to keep the market clean. There has been a lowering of prices, with larger drops in prospect. Stock of all kinds is good. There has been a dropping off in the shipping business showing that the out of town growers are increasing their production and are able to supply retailers in their neighborhood to a greater extent.

Calumet, Mich.—The floral establishment of Harper & Thomas has been sold to Henry Kettenbell.

H. E. FROMENT
Wholesale Commission Florist
Choice Cut Flowers
New Address, 143 West 28th St., NEW YORK
Telephones: 2200, 2201, Madison Square.

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Call and inspect the Best Establishment
in the Wholesale Flower District.

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Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3635-3535 Madison Square

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Wholesale Commission
READY FOR BUSINESS
49 WEST 28th ST. NEW YORK.

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PHONE { 608 } { 609 } FARRAGUT NEW YORK

THE KERVAN CO
Fresh Cut Decorative Evergreens.
Highest Standard of Quality. Largest
Stock in America. Write for Illustrated
Catalog of Greens and Florists' Supplies
119 W. 28th St., - - NEW YORK

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WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
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FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
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I NEED MORE FLOWERS. Send your stock here and get
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55-57 West 26th Street
Telephones, 13-6510 Madison Square
MAURICE L. GLASS, Treasurer
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NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Part of Week ending Jan. 25 1918		First Part of Week beginning Jan. 27 1918	
American Beauty, Special	60.00	to 100.00	60.00	to 100.00
" " Fancy and Extra	25.00	to 50.00	25.00	to 50.00
" " No. 1 and culls.	5.00	to 25.00	5.00	to 25.00
Russell,	10.00	to 25.00	10.00	to 25.00
Hadley,	10.00	to 50.00	10.00	to 50.00
Euler, Mock, Key	8.00	to 30.00	8.00	to 30.00
Aronberg, Hoosier Beauty	6.00	to 25.00	6.00	to 25.00
Ward, Hillingdon	8.00	to 20.00	8.00	to 20.00
Killarney, Taft	8.00	to 20.00	8.00	to 20.00
Ophelia, Sunburst	8.00	to 25.00	8.00	to 25.00
Carnations	5.00	to 10.00	5.00	to 10.00

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We have a numerous clientele of New York City buyers and the demand exceeds our supply. This is especially true of Roses. We have every facility and abundant means and best returns are assured for stock consigned to us.

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111 W. 28th St., NEW YORK
D. J. Pappas, Pres.

REED & KELLER
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Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Boston Floral Supply Co.
347-357 Cambridge St., Boston
Headquarters for
CYCAS, BASKETS, WIRE DESIGNS
and WAX FLOWERS
Send for price list if you have not re-
ceived one.

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.
10,000...\$2.25 50,000...\$9.75 Sample free.
For sale by dealers.

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CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting
especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
40 STATE STREET . . . BOSTON
Telephone Main 58

When writing Advertisers kindly mention Horticulture

Local and General News

CHICAGO.

A. F. Amling and family are at Hot Springs, Ark., for a few weeks.

Word has been received of the arrival in Orange, Cal., of E. C. Amling and family, who will spend three months there as usual.

Chas. McKellar sees little change in the demand for flowers as the limited supply now coming in is rapidly absorbed for funeral work.

L. D. Eastman & Sons, 1168 E 63rd street is rapidly getting business back to where it was before his son, who had charge of the store entered the service. A part of the greenhouses at 1800 E. 77th street were closed at that time.

Hoerber Bros., whose wholesale store is at 162 N. Wabash avenue, says their greenhouses will be run to full capacity next season. This year in compliance with the request of the government six of their twenty large houses were closed making a shortage of stock with which to supply their large trade.

A letter from Chas. Kruchten, now in the service in France, says he has not received a letter from home since he sailed last June, as well as no pay. These are hard lines for a soldier whose family has written him constantly. Charles had charge of the greenhouses of W. J. Kruchten, 5308 N. Western avenue and brother of John and Henry of the wholesale firm of John Kruchten Co., 162 N. Wabash avenue.

Luke Collins, of the Parkside Greenhouses, 1457 E. 70th St., who has been in business there for seventeen years, reports trade fair. Like all other growers he has felt the shortage of help occasioned by the war. Mr. Collins has seen many changes in his vicinity, the miles of prairie around the south end of Jackson Park now being replaced by a residence and business district. His wife and son, William are also actively engaged in the business.

A. Henderson, president of the A. Henderson Co., has purchased the Winterson Seed Co.'s store and will

J. J. COAN, INC. Wholesale Florist

116 West 28th Street, NEW YORK

Phones:
Farragut 5413 and 5891

Everything in Cut Flowers

J. K. ALLEN

"A LEADER IN THE WHOLESALE COMMISSION TRADE FOR OVER THIRTY YEARS"
ROSES! I WANT ROSES!

Have a demand for more than I can supply. Rose Growers Call or Write.

118 West 28th St.

NEW YORK

TELEPHONES
Farragut 167 and 2066

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Part of Week ending Jan. 25 1918		First Part of Week beginning Jan. 27 1918	
Cattleyas.....	25.00	to 60.00	25.00	to 60.00
Lilies, Longiflorum.....	20.00	to 25.00	20.00	to 25.00
Lilies, Speciosum.....	8.00	to 12.00	8.00	to 12.00
Lily of the Valley.....	4.00	to 10.00	4.00	to 10.00
Snapdragon.....	8.00	to 20.00	8.00	to 20.00
Violets.....	.50	to .75	.50	to .75
Narcissus.....	.....	.....	.....	.....
Calendula.....	4.00	to 8.00	4.00	to 8.00
Sweet Peas.....	3.00	to 5.00	3.00	to 5.00
Gardenias.....	16.00	to 35.00	10.00	to 35.00
Adiantum.....	.50	to 1.00	.50	to 1.00
Smilax.....	12.00	to 20.00	12.00	to 20.00
Asparagus Plumosus, & Spreng (100 bunches).....	15.00	to 25.00	25.00	to 25.00

take possession on Feb. 1st. This will give Mr. Henderson the opportunity to enlarge upon the business that he has built up during the past five years in both the wholesale and retail ends of the trade. Mr. Henderson is well known all over the country and his experience and ability promise well for his success in his new undertaking. John Degnan, for many years manager of the Winterson Seed Store, will remain.

Comparing the eastern wholesale market with that of Chicago, Paul Klingsporn, manager of the Chicago Flower Growers' Association, says that on his tour of the East last week he found that in New York carnations were selling at ten and twelve cents for good stock and six cents for splits. In Philadelphia, carnation prices ranged from ten to fifteen cents with Laddie selling for twenty cents. Price on roses were equally stiff, ten inch stock of ordinary varieties bringing fifteen cents and stock two or three inches longer twenty cents and longer grades much higher. Beauties were selling for a dollar each and medium Ophelia forty cents. The only stock selling for less than in Chicago was cattleya.

CINCINNATI.

Paul Naber, after his term of service, has been discharged and has returned home.

C. E. Critchell and E. G. Gillett are among the Cincinnati contingent who are going to Cleveland to the Carnation Convention.

BOSTON.

George C. Harbison, for many years in the employ of W. H. Elliott, is now with Robert Cameron at Harvard Botanic Garden.

The Boston Floral Supply Company has opened a commodious salesroom at 15 Otis street. Albert Strumph will be in charge.

Leonard Barron of Garden City, N. Y., will lecture on Saturday, February 1, at Horticultural Hall, on the topic of "Gardening After the War."

ROCHESTER, N. Y.

B. E. Pemberton, of U. S. Service, has received an honorable discharge.

Clyde La Rock, of Geo. Boucher's, is home on a five day furlough from Camp Mineola, L. I., and expects to be discharged next month.

In the opinion of John Dunbar, assistant superintendent of parks, the present unseasonably warm weather is likely to produce injuries to trees and shrubs if it is followed by sudden and severe cold. Should it come gradually he believes no great harm will be done, as in that case the sap will subside. What he fears is a sudden lowering of temperature to the zero mark.

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on Yearly Order

It would keep your name and your specialty before the whole trade.
A half-inch card costs only 45c. per week on yearly order.

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Wholesale Florist

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Manufacturers of ALL STYLES and
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FLOWER POTS

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GREENHOUSE GLASS

Free from Bubbles
Uniform in Thickness

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Greenhouse White (Semi-Paste) The
Paint Particular
Florists Prefer

It will pay you to get our estimates.

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BUFFALO, N. Y.

Dreer's Peerless Glazing Points For Greenhouses

Drive easy and true, because
both bevels are on the same
side. Can't twist and break
the glass in driving. Galvan-
ized and will not rust. No
rights or lefts
The Peerless Glazing Point
is patented. No others like
it. Order from your dealer
or direct from us.

1000, 90c. postpaid.
Samples free.

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Philadelphia.

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SIZE
No. 2

In the Coming

Reconstruction Period

The Florist will be prosperous
and as a precautionary meas-
ure insure your glass against
damage by hail. A letter to
JOHN G. ESLER, Secretary,
Saddle River, N. J., will bring
the particulars.

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stock and knows selling thoroughly by
experience. To be on the road the greater
part of the time. There is practically no
limit to remuneration—it depends to a
great extent upon his selling capacity and
energy. Only a man who intends to stay
would be considered. If you can fill these
requirements, write stating nationality, ex-
perience and states covered or come and
see us personally. Do not reply if you feel
you cannot fill this position. It demands
a first class man. **BOBBINK & ATKINS,**
Rutherford, N. J.

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Manda, Inc., is open for a position as
traveling salesman. Address Phoenix-
ville, Conn.

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Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

CARNATION STAPLES

Split carnations quickly, easily and
cheaply mended. Pillsbury's Carnation
Staple, 1000 for 35c.; 3000 for \$1.00 post-
paid. **I. L. PILLSBURY, Galesburg, Ill.**

DAISIES

Daisies, Bellis, Monstroza, pink or white,
also Longfellow and Snowball, fine strong
plants, \$2.50 per 1000, \$8.75 per 3000, cash.
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DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell.
\$10.00 per clump. Cash with order.
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New Peony Dahlia—John Wanamaker,
Newest, Handsomest, Best. New color, new
form and new habit of growth. Big stock
of best cut-flower varieties. Send list of
wants to **PEACOCK DAHLIA FARMS,**
Berlin, N. J.

GLADIOLI

See display adv't gladiolus "Mrs. WATT."
HOMER F. CHASE, Wilton, N. H.

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6 by 8, 8 by 10, 10 by 12 or 10 by 14 at
\$4.50 per box of 50 square feet. **C. N. ROB-
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Greenhouse glass, lowest prices. **JOHN-
STON GLASS CO., Hartford City, Ind.**

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Gold fish, aquarium plants, snails, cas-
ties, globes, aquarium, fish goods, nets,
etc., wholesale. **FRANKLIN BARRETT,**
Breeder, 4815 D St., Olney, Philadelphia,
Pa. Large breeding pairs for sale. Send
for price list.

GREENHOUSE SASH

Standard Hot Bed Sash, Cypress, made
with cross-bar, blind tenons, white leaded
in joints, \$1.50 each. Orders for 25 or more,
\$1.45 each. Glass 6 by 8, 8 by 10, 10 by 12
or 10 by 14 at \$4.50 per box of 50 square
feet. Write for circular. **C. N. ROBINSON
& BRO., Dept. 29, Baltimore, Md.**

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HASSALL & CO., Orchid Growers and
Raisers, Southgate, London, England. **Catt-
leyas and Laello-Cattleyas** our specialty.
One trial order solicited.

PEONIES

Peonies. The world's greatest collection,
1200 sorts. Send for list. **C. BETSCHER,**
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Live Sphagnum moss, orchid peat and
orchid baskets always on hand. **LAGER
& HURRELL, Summit, N. J.**

SWEET PEAS

Just Arrived, crop 1918 winter flowering
SWEET PEAS, New Zealand grown, the
large flowering waved or Spencer type. We
have been very fortunate to secure the en-
tire crop of one of the best growers in New
Zealand. New Zealand grown seed has al-
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and seed started in August will produce
flowers from Thanksgiving until March;
requiring a low temperature, these make an
ideal crop for the Florist this year. Scar-
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all the best colors. Pink and White,
Blanche Ferry type. Yarrowa (true), bright
rose pink with light wings. Write for
further particulars.
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Flowering and Foliage Vines, choice
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FOR SALE—Greenhouse 20 by 30 feet;
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50 hot-bed sash. McCray Florists' Refrig-
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FOR SALE—On account of ill health will
sell cheap for cash, two greenhouses 125
by 26 ft.; 1 potting shed; barn 26 by 35
ft. and two acres of fine land, all improve-
ments, 24 miles from New York. Good lo-
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opportunity to right party. Apply at
once or write **R. SEIDLER, P. O. Box 94,
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WANTED by March 1st a working fore-
man, on a place of about 50,000 feet glass,
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age, experience and wages expected, to
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With life experience and best reputation,
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Address Good Will, care Horticulture.

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acre of land; on three improved streets; trolley passes in
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Save your plants and trees. Just the thing for greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrips, Red Spider, Black and Green Fly, Mites, Ants, etc., without injury to plants and without odor. Used according to direction, our standard Insecticide will prevent ravages on your crops by insects.

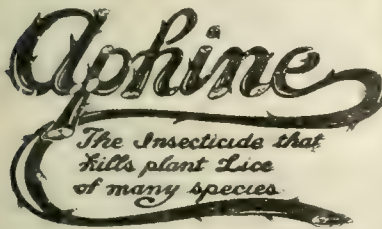
Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

½ Pint, 30c.; Pint, 50c.; Quart, 90c.;
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For eel worms, angle worms and other
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KEEP SUMMER WITH YOU THE WHOLE YEAR ROUND

On account of their sturdy special construction which permits of great strength without the need of heavy shadow casting supports, these houses are so warm and sunny that they are filled with a riot of bloom and fruit when Jack Frost has stripped the garden of its beauty.

The ventilating and heating systems are the result of years of experience in building for professional growers. Things just have to grow in a King.

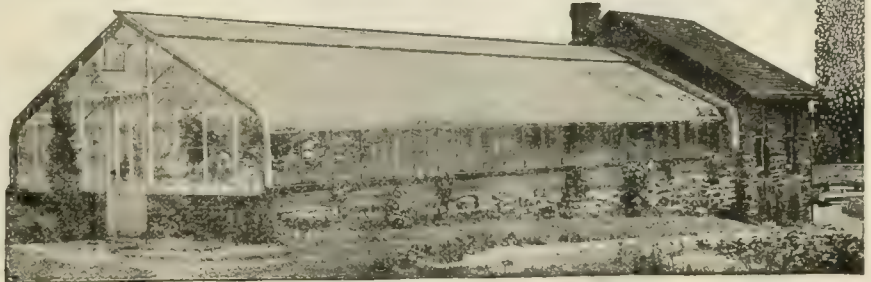
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NEPONSET, BOSTON

DREER'S "Riverton Special" Plant Tubs



No.	Diam.	Ea.	Doz.	100
10	20 in.	\$3.25	\$37.50	\$237.50
20	18 in.	2.75	30.00	237.50
30	16 in.	2.25	26.00	195.00
40	14 in.	1.90	22.00	168.75
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60	10 in.	.95	10.50	77.50
70	8 in.	.75	8.25	62.50

The Riverton Tub is sold exclusively by us, and is the best ever introduced. The neatest, lightest, and cheapest. Painted green and bound with electric-welded hoops. The four largest sizes are equipped with drop handles.

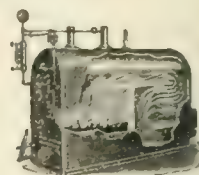
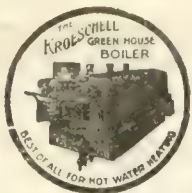
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Don't fail to read over these Ads. In each issue and you may find one or more that will prove profitable to you.

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By M. G. KAINS

Lecturer on Horticulture, Columbia University

Few practices in the handling of plants, especially fruit bearing plants, attract so much interest as do those of pruning. The methods are so varied, the results so diverse, and the opinions of growers so apparently contradictory that this subject is always one of the most interesting, and the surest to hold attention and arouse discussion.

Particularly during the last ten or fifteen years when the principles of plant physiology have been more and more satisfactorily applied to plant production and management has interest settled in pruning. During the latter half of this time also more and more investigations and tests have been conducted by experiment stations and other workers to test out methods and principles in the interest of science and for the benefit of growers. The accumulation of such new knowledge has become very considerable especially in the last decade, but it is necessarily so scattered that very few growers have access to it, hence the demand for a book, which shall present the really important features of these investigations as well as set forth the fundamental principles based upon the laws of plant growth.

This volume is lavishly illustrated mainly by actual photographs of specimens which show good and bad practices. The author has spared neither time nor expense in gathering his photographs, each one of which tells its story.

After a few pages of introduction the author discusses Plant Physiology as related to pruning. A chapter takes up the Philosophy of Pruning, itself a very interesting subject. Then follows a classification and clear discussion of Buds, very fully illustrated from life. How Wounds Heal is an exceedingly interesting chapter, as are also those on Prevention and Repair of Mechanical Injuries, Pruning Nursery Stock, Young Trees, Mature Trees and Odd Methods of Pruning and Training, Rejuvenating Neglected Trees and Practical Tree Surgery.

Profusely illustrated. 400 pages. 5 1/2 x 8 inches.
Cloth. Net, \$2.00.

HORTICULTURE PUBLISHING CO.
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By M. G. KAINS

We have had many inquiries from time to time for a reliable and up-to-date book on plant propagation, but were always at a loss to find any publication that we could recommend. The subject has been dealt with in fragmentary manner only in books that have come to our notice. So it is well that this new work has been issued, especially as it is both comprehensive and practical, and it should meet with a ready sale among plantmen, nurserymen and gardeners. There are nineteen chapters covering in detail topics of germination and longevity of seeds, propagating by buds, layering, cuttings, grafting, etc., fruit tree stocks, scions, etc., and there are eight pages of condensed cultural instructions in tabulated form, covering annuals and perennials from seed, woody plants, evergreens, vines, bulbs and tubers, greenhouse and house plants, ferns, palms, water plants, orchids and cacti. The illustrations are numerous, comprising 213 figures and halftone plates. There are 322 pages well bound and on heavy paper, teeming with helpful information. It is a book which no cultivator can afford to do without. It is worth many times its price. Copies can be supplied from the office of *HORTICULTURE* at publisher's price, \$1.50.

HORTICULTURE PUBLISHING CO.
147 Summer St., Boston, Mass.

HORTICULTURE

Vol. XXIX

FEBRUARY 8, 1919

No. 6

THE NEW POMPON CHRYSANTHEMUMS

CHRISTMAS GOLD NOVEMBER PEARL
BECKY McLANE

THE NEW SINGLES

MRS. E. M. HORNE MOLLY WHITMORE
PEGGY BULKELEY

THE NEW ANEMONES

VOLUNTEER PINK LADY

AND

THE NEW CHRYSANTHEMUM

GOLDEN MISTLETOE

Are our offerings of the year 1919

A. N. PIERSON, Inc.
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FOR VALENTINE'S DAY

A few of those soft furry-tufted sprays of Pussy Willow with each box of flowers give it the touch that is so desirable.

In bunches of about 12 sprays, small, medium, large and extra large, per bunch, 25c., 50c., 75c. and \$1.00.

Write for quantity quotations.

Everything in Cut Flowers, Plants, Greens, Ribbons and Supplies.

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1608-1620 Ludlow St.

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**Extra Strong, Heavy Plants, Well
Finished, for Immediate Delivery**

Nephrolepis elegantissima, elegantissima Compacta, and Smithii:	
2 1/4-inch pots	\$8.00 per 100
Nephrolepis elegantissima Compacta, Muscosa, and Smithii:	
3 1/2-inch pots	\$.35 each
Nephrolepis elegantissima and elegantissima Compacta:	
6-inch	\$.75 each
8-inch	1.50 "
10-inch	3.00 "
12-inch	5.00 "
Nephrolepis Harrisii, 8-inch	1.50 "
Nephrolepis Muscosa and Smithii:	
5-inch .....	.75 "
6-inch	1.00 "
Nephrolepis Dwarf Boston, 8-inch.....	1.00 "

F. R. PIERSON
TARRYTOWN, N. Y.

R. Vincent, Jr., & Sons Co.

WHITE MARSH, MARYLAND

*Wholesale Growers of Greenhouse
and Bedding Plants for
the Trade*

ALTERNANTHERAS, COLEUS, AGERATUM,
ACHYRANTHES, BEGONIAS, CANNA,
GERANIUMS, SALVIA, HARDY
ENGLISH IVY, ETC.

Send for Catalogue

Cash with Order

R. Vincent, Jr., & Sons Co.

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Queen of the Market, White, Blush
Pink, Rose Pink, Dark Blue, Light
Blue, Crimson Trade pkt., 25c;
100 per oz. Mixed Trade pkt., 20c;
\$1.00 per oz.

Aster Early Wonder, Pink or White,
Trade pkt., 10c; \$2.25 per oz.

Early Royal Branching, White, Rose
Pink, Shell Pink, Purple, Lavender,
Trade pkt., 10c; \$2.25 per oz.

Mixed, Trade pkt., 10c; \$2.00 per oz.

CENTAUREA

Candidissima, per 1000 seeds, 10c; \$2.00
Gymnocarpa, per 1000 seeds, 15c; 50

LOBELIA

Crystal Palace Compacta...\$0.30 \$1.50
Barnard's Perpetual (Trail

ing)... 25 1.75

Crystal Palace Speciosa... 20 75

Sapphire (Trailing)... 10

PETUNIA

Grandiflora fringed... 80.30 \$0.50
Ruffled Giants... 30 .50

California Giants... 30 .50

Monstrous (Michell's)... 60 1.00

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Michell's Scarlet Glow...\$0.30 \$0.50 \$1.00
America (new)... 30 .50 5.00

Bonfire... 25 .40 2.50

Splendens... 25 1.50

Zurich... 30 40 4.00

ALSO ALL OTHER

SEASONABLE SEED AND SUPPLIES
Send for Wholesale Price List

HENRY F. MICHELL CO.

518 MARKET ST., PHILADELPHIA

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Special Gladioli Order

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CHICAGO WHITE... 30.00
HALLEY... 22.00
FRANCIS KING... 22.00
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LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....142	Chicago Flower Growers' Asso.....141	Gasser Co., J. M.....137	Lemon Oil Co.....134	Pierson, F. R.....121	Smith & Fellers Co.....135
Allen, J. K.....141	Childs, John Lewis.....122	Graham & Son, A.....137	Liggit, C. U.....123	Pulverized Minute Co.....134	Smyth, Wm. J.....137
American Bulb Co.....122	Clarke, D. Sons.....136	Grakelow, Chas. H.....137	Low Co., Stuart.....132	Randalls Flower Shop.....136 137	Stump, G. F. M.....136
American Forest try Co.....133	Coan, J. J.....141	Gude Bros. Co.....136	Maine Bulb & Flower Growers.....133	Reed & Keller.....140	Stump & Walter Co.....122
Anderson, S. A.....137	Cooke, Geo. H.....136	Hail Asso.....142	McHutchison Co.....124	Reid & Meyer.....140	Thorburn, J. M. & Co.....122
Aphine Mfg. Co.....134	Conard & Jones.....133	Heistad, H.....122	Marshall, W. E. & Co.....122	Reid, Edw.....135	Totty, Chas. H.....133
Barrows, H. H.....124	Cottage Gardens Nurseries.....133	Henderson & Co., A.....138	McKenzie, John.....137	Reuter, L. J. Co.....124	Tracy, B. Hammond.....123
Bayersdorfer, H. Co.....138	Cowee, W. J.....140	Hentz & Nash.....141	Metropolitan Material Co.....143	Rice & Co., Jerome B.....135	United Cut Flower Co.....140
Bay State Nursery.....124	Craig Co., Robt.....123	Hess & Swoboda.....137	Michell, H. F. Co.....122	Robinson, Henry M. Co.....140	Vincent, R. Jr. & Sons Co.....121
Bobbink & Atkins.....123	Danker.....136	Hews & Co., A. H.....142	Michigan Cut Flower Ex.....138	Robinson, H. M. & Co.....138	Wants, For Sale etc.....142
Boddington Co., Inc., A. T.....135	Dier, H. A.....142	Hill Co., E. G.....138	Millang, Chas.....141	Roehrs, J. Co.....124	Warburton.....135
Bolzano & Son.....122	Dunlop, John H.....137	Hill, D. Nursery Co.....124	Muller-Sealey Co.....123	Roland, Thomas.....137	Weber, F. C.....137
Boston Floral Supply Co.....140	Dwelle-Kaiser Co.....142	Irwin, R. J.....122	Murray, Samuel.....136 144	Rosery, The.....136	Weiss, Herman.....140
Breck, J. & Sons.....122	Dysart, R.....140	Johnston Bros.....136	National Nurseryman.....133	Schwake, Chas. Co.....123	Wilson.....136
Breck - Robinson Co.....133	Edwards Folding Box Co.....138	Kastings, W. F. Co.....138	Nicotine Mfg. Co.....143	Sekenger, Adam.....136	Wood Bros.....137
Brelmeijers, J. Sons.....136	Esler, J. G.....142	Kelway & Son.....122	Niessen, Leo Co.....138	Sheridan, W. F.....140	Woodruff, S. D. & Sons.....122
Budlong, J. A.....138	Farquhar, R. & J. Co.....122	Kervan Co.....149	Palmer, W. J. & Son.....137	Siebrecht, Geo. C.....140	Young, A. L.....140
Bunyard, A. T.....136	Fengar, E. W.....123	King Construction Co.....143	Park Floral Co.....137	Siggers & Siggers.....142	Young, John.....140
Burnett Bros.....122	Ford, M. C.....140	Knoble Bros.....137	Parshelsky Bros.....143	Skidelsky, S. S. & Co.....123 124	Young & Nugent.....136
Burpee, W. A. & Co.....122	Ford, W. P.....140	Kroeschell Bros.....143	Pean the Florist.....136	Smith, Elmer D. & Co.....124	Zech & Mann.....138
Carter's Tested Seeds, Inc.....135	Froment, H. E.....140	Kuebler, W. H.....140	Pennock, S. S. Co.....141	Smith, P. J.....140	
	Galvin, Thos. F.....137	Kottmiller.....138	Pierce Co., F. O.....143	Smith, W. & T. Nursery Co.....124	
			Pierson, A. N.....124	Smith, The Florist.....137	

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ENDURANCE OF CONIFEROUS TREES AT WELLSELEY, MASS.

I have been interested in reading Mr. Horsey's report on the condition of the coniferous trees and shrubs, after the severe winter of 1917-1918 in Highland Park, Rochester, N. Y., in *HORTICULTURE* of Jan. 4th, 1919.

It may be interesting to make a comparison as to the way the same plants came through on the Hunnewell estate, Wellesley, Mass. For easy reference, I will take the plants in the order given in *HORTICULTURE*, and add notes on any grown here, not in the collection at Rochester.

The terms "hardy" and "hardiness," it seems to me, do not always (or cannot always) apply to a plant's ability to endure a low temperature. Hardiness, I think, in its fullest meaning, should be "endurance," or a plant's ability to stand the climatic conditions of its environment, for its active lifetime. When a plant's activities grow less, as they do when it has reached its usual life-limit, it may be killed during a severe winter. But that would be from old age. In the woods, every winter, we fell trees that are dead, or nearly so, and we always find more dead ones, after a severe winter like the last. Hardiness may even also be considered in reference to a plant's ability to withstand occasional excessively high temperatures. There is no doubt that the reason why the common White Spruce, *Picea alba* (*P. canadensis*) does not thrive here, is because our summers are too warm. It is short lived. Massachusetts may be said to be its southern limit. And may that not be the reason why the common Blue Spruce, *Picea Parryana*, is short lived. Both do well as young trees, but they do not keep it up. The same may be said of our Red and Black Spruces, plants common in the north and northeast. The common Arborvitae was badly injured in many places last winter, but it could not properly be said that it was not hardy on account of its inability to stand a low temperature. Many plants which are hardy, under natural conditions, are tender under cultivation.

Some unusual things happen at times, which the term "hardiness" does not quite cover. Our common mountain laurel, *Kalmia latifolia* is frequently injured. This we know is native in this locality, and although we would naturally charge it to the severity of our winters, I do not think we properly can. We should rather say, it is not quite hardy, or that it suffers occasionally, under cultivation. No doubt the injuries to many other plants may be explained in the same way. Those, like the Japanese yew, that endure under all conditions, are worthy the title of "Ironclad."

Then again, we have the unexplainable condition of plants, native of more southern latitudes, which are quite as hardy as natives, under cultivation. In this connection I would mention the southern Hemlock, *Tsuga caroliniana*, which never, or hardly ever, has been injured here, while the Common *Tsuga canadensis* is quite frequently sunburnt during winter.

When going through England and Scotland some years ago, I found that while the Pacific coast evergreens thrived splendidly, the hardier (with us) Rocky Mountain species did generally quite poorly, as well as most of the Japanese species of firs and spruces. Even our own White Pine, is nowhere a success "over

there." If you ask them why you are unhesitatingly told, because they are not hardy. This is not the true explanation,—if hardiness and degrees of cold go together, there is some other.

Although last winter was probably the most severe for a quarter of a century, our *Rhododendrons* and *Kalmias* came through better than usual; and we are unable to give any reason.

If any plant that may live for years, but is repeatedly injured, like *Chamaecyparis Lawsoniana*, and *Libocedrus decurrens*, I should say "not hardy." Any plant that lives, but does not thrive, like *Abies grandis*, *A. nobilis* and *Tsuga Sieboldii*, I could only say "undesirable."

There is still another class of plants, to which reference should be made in this connection. Many of E. H. Wilson's introductions from China proved tender during the first few years of their seedling life; but afterwards when the flush of youth had gone by, they settled down into a life of hardihood; they might easily have been discarded as not hardy, and, in fact, many were. Experience proved that injury came from the grossness of growth under cultivation, made late in the season, and not properly ripened. In this connection I mention *Spirea Veitchii*; we all but discarded it. As the plants grew older they made shorter growth, ripened earlier, and now the plant is quite hardy. *Taxus cuspidata* var. *chinensis*—the tree form of the species has always been injured, but it is always the young growth made late in the season, and there is every prospect, it will get into the habit of maturing its growth earlier, and prove quite hardy.

Abies amabilis was not injured; *Abies balsamea*, Douglas broad-leaved, uninjured; *Abies cephalonica*, injured—has been injured before, but never beyond recovery; *Abies cephalonica*, var. *Apollinis*, is badly cut up and some small plants were killed; *Abies cilicica*, uninjured; *Abies concolor*, uninjured; *Abies grandis*, dead; *Abies Nordmanniana*, a tree 75 feet high, severely injured. It has been injured so before, but made good. This tree is about 60 years old, and probably will never quite recover. *Abies homolepis umbella*, uninjured; *Abies pectinata*, exposed and uninjured; *Abies Veitchii*, uninjured.

Species not in the Highland Park list grown here are: *Abies holophylla*, uninjured; *Abies brachyphylla*, uninjured—this is supposed to be synonymous with *Abies homolepis*, though in habit and in some other respects it is different; *Abies Mariessii*, uninjured—this has been injured in previous winters; *Abies lasiocarpa* true (*A. arizonica*), uninjured—this also has been injured in previous winters; *Abies bifida*, injured, and has been injured nearly every winter, and may be called undesirable.

Here follows a list of smaller trees, not sufficiently tested. So far the results are: *Abies Numidica*, uninjured; *A. squamata*, injured; the remainder of the list uninjured. *A. Fargesii*, *A. Delavayi*, *A. recurvata*, *A. Suchuenensis* and *A. Faxoniana*.

Cedrus atlantica has been tested here and is not hardy; *Cedrus Libani*, injured more or less every winter, but recovers and may eventually prove hardy.

Chamaecyparis pisifera, uninjured—none of its varieties were injured during last winter, but in previous winters *Ch. p. aurea* has been; *Chamaecyparis pisifera squarrosa* uninjured—never has been injured, and *Chamaecyparis nootkalensis*, uninjured, and never has been; *Chamaecyparis thyoides*, always injured in cultivation, though native in nearby swamps; *Cryptomeria japonica*, always injured and undesirable.

Juniperus chinensis, uninjured, seldom injured; *Juniperus*

perus Sabina, uninjured except variety *tamariscifolia*, now dead; *Juniperus communis*; vars. *suecica* and *hibernica*, often injured, and have been discarded; *Juniperus virginiana*, all forms injured.

Libocedrus decurrens, discarded, did not die but did not grow.

Picea bicolor, uninjured; *Picea canadensis* (alba), uninjured; *Picea Englemanni*, uninjured; *Picea Glehnii*, uninjured; *Picea jezoensis* (P. *ajanensis*), uninjured, short lived; *Picea Omorika*, uninjured, but suffers badly from weevils; *Picea orientalis*, uninjured; *Picea pungens* (P. *Parryana*), uninjured, and *Picea sitchensis*, not hardy, also *Picea Albertiana* (P. *alba* var.), uninjured; *P. mariana* *Doumettii*, not on the Rochester list, uninjured.

We have a number of new Chinese species now about six years old and from 2 to 5 feet high; none, excepting *Picea adscondens* which apparently is synonymous with *P. Sargentiana*, have been injured. This list is as follows: *Picea asperata*, *P. asperata* v. *notabilis*, *P. asperata* v. *ponderosa*, *P. aurantiaca*, *P. purpurea*, *P. heterolepis*, *P. Balfouriana*, and *P. montigins*. *P. Smitheana* has been here more than twenty years. It has lived, but has been frequently injured.

Pinus aristata is uninjured, while *Pinus Armandi* has been injured more or less several winters, and now discarded; *Pinus Bungeana*, uninjured; *Pinus cembra*, *Pinus densiflora*, uninjured; *Pinus densiflora nana* and *Pinus densiflora pendula*, uninjured, also *Pinus excelsa*, uninjured, but has been injured in previous winters; *Pinus flexilis*, uninjured; *Pinus Koraensis*, uninjured; *Pinus nigra austriaca*, uninjured; *Pinus nigra Pallasiana*, uninjured; *Pinus montana*, uninjured; *Pinus monticola*, uninjured; *Pinus parviflora* (P. *pentaphylla*), uninjured; *Pinus Peuce*, are uninjured, while *Pinus ponderosa*, injured severely, but less so and will recover, but does not thrive; *Pinus resi-*

nosa, uninjured; *Pinus Strobus*, uninjured; *Pinus sylvestris*, uninjured; *Pinus Thunbergii* remain uninjured.

Of the pines not on the Rochester list: *Pinus Lambertiana* was killed last winter; it was an old plant about 25 feet high, but had never grown satisfactorily; *Pinus scopiolorums*, uninjured; *Pinus sinensis*, uninjured; *Pseudotsuga taxifolia* are uninjured; there are several specimens on the estate, but no good ones, but on an exposed and sandy soil about a mile away, they have done well; *Sciadopitys verticellata*, some specimens badly injured but have never been injured before; *Taxodium distichum*, uninjured.

Taxus baccata, uninjured, and have been injured more or less every winter, one lot killed, while *Taxus canadensis*, browned in the sun, late growing tips were killed and *Taxus cuspidata* remain uninjured, while *Taxus cuspidata*, var. *sinensis*, late growing, tips injured.

Thuja Standishii (T. *japonica*), uninjured, although very much bronzed in the sun; *Thuja occidentalis*, injured in many places, but will recover, while *Thuja plicata* has been injured more or less every winter, dead, and *Tsuga canadensis* is badly burned in the sun, while *Tsuga caroliniana*, slightly injured, came through better than the more northern species; *Tsuga diversifolia*, uninjured, and *Tsuga Sieboldii*, injured more or less every winter and not satisfactory.

Torreya nucifera, some plants injured, will recover, while *Torreya taxifolia*, uninjured, but has been injured other winters.

Chamaecyparis obtusa, var. *ericoides*, not on the Rochester list, has proven perfectly hardy.

J. D. Hatfield

Wellesley, Mass.

PROPOSED QUARANTINE OF BARBERRIES.

The Secretary of Agriculture has information that the common barberry (*Berberis vulgaris*) and its horticultural varieties, as well as other species of *Berberis* and *Mahonia*, are capable of harboring the black stem rust of wheat, oats, barley, rye, and many wild and cultivated grasses (*Puccinia graminis*) throughout much of the grain-growing area of the country and especially in the states of Nebraska, Iowa, Illinois, Indiana, Ohio, North Dakota, South Dakota, Minnesota, Kansas, Montana, Wisconsin, Michigan, Wyoming, Missouri and Colorado. The prevalence of the common barberry throughout this area has been responsible to a considerable degree for the severity of the epidemics of black stem rust that have frequently caused enormous losses of wheat and other cereals.

Through the co-operation of the Department of Agriculture with state officials, local organizations, and individuals, the susceptible species of *Berberis* and *Mahonia* have been very largely eradicated from the above-named states, but these plants are still prevalent in many of the regions of the United States. It appears necessary, therefore, to quarantine the states of Alabama, Arizona, Arkansas, California, Connecticut, Delaware, Florida, Georgia, Idaho, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Mississippi, Nevada, New Hampshire, New Jersey, New Mexico, New York,

North Carolina, Oklahoma, Oregon, Pennsylvania Rhode Island, South Carolina, Tennessee, Texas, Utah, Vermont, Virginia Washington, West Virginia and the District of Columbia, in accordance with Section 8 of the Plant Quarantine Act of August 20, 1912 (37 Stat. 315), as amended by the Act of Congress approved March 4, 1917 (39 Stat. 1134, 1165), and to prohibit or regulate the movement from said states and district to the states first above named of all species and varieties of barberry and *Mahonia* susceptible to black stem rust.

A public hearing will be held at Room 11, Federal Horticultural Board, Washington, D. C., at 10 o'clock, on February 24, 1919, in order that any person interested in the proposed quarantine may be heard either in person or by attorney.

BELGIUM'S PLIGHT.

The personal letter which we herewith take the liberty to publish from the elder Sander, St. Albans, Eng., will be read with interest by a host of Mr. Sander's long-time friends in America. A few words of comment on same will be found on the editorial page:

St. Albans, Eng., Jan. 18, 1919.
My dear Mr. Stewart:

Louis has just come back from Bruges and has to return to his regiment on Monday. Mr. Mellstrom has done very wonderful. Without him there all would have been lost. The report is but hard and sad. The nursery trade has probably suffered more than any other. A factory one can shut up and it can be reopened; a nur-

sery must be kept going or lost. There is no middle way. I have hope that our nursery will survive the sad times, but it will be a struggle. If only I was 20 years younger! But it must be left to the generation now coming on. I have sent your plant import article of the 21st of December on to the Chamber of Commerce (Horticultural) in Ghent. It's all too awful to think that Dr. Marlatt's idea could destroy hundreds of nurseries owned by folk so terribly hit during the last four years! After all, remember the Ghent nurserymen are not rich and never have been, or really even nearly so. They have been a hard working set and contented with little, and in reality the American florists have reaped the largest benefit. Why disturb this? A few years ago, I think it must be two years or more, I saw articles written by an American azalea indica grower, saying that he could grow them equally good in America. Do you remember the articles? I don't think it was in HORTICULTURE I saw it.

Kind regards to you all.

SANDER.

SOME PRODUCTS FOUND WORTHLESS.

The unusual fertilizer situation has brought forth numerous fertilizer substitutes of more or less doubtful merit for which extravagant claims are made. Companies are organizing to exploit fertilizer materials, concerning the value of which little is known, and a considerable increase in such test work seems necessary. Several such products have been investigated and tested by the department. Some of them are practically worthless and others have value entirely out of proportion to prices charged.

GARDENING AFTER THE WAR.

"Gardening After the War" was the subject of the lecture delivered last Saturday afternoon at Horticultural Hall, Boston, under the auspices of the Massachusetts Horticultural Society by Leonard Barron of Garden City, N. Y., editor of the Garden Magazine. Mr. Barron foresees a continuance of the interest developed in gardening by war-time conditions. The increased participation of women in gardening, the work done by the children, the knowledge the returned soldier has gained of the love of flowers and trees in foreign lands, will contribute to the renaissance which has come with the war in the art of gardening. The planting of trees as memorials to soldiers impresses Mr. Barron as a movement of far-reaching beneficent possibilities. Finally he sees in these new conditions great opportunity for the horticultural trades.

Something More Than Vegetables.

In the course of his address Mr. Barron said that the time had come when thousands of the gardeners were ready to go a step beyond the mere cultivation of vegetables. They will turn to the growing of fruits, flowers and ornamental shrubs. The price of nursery stock will be higher and for some time to come commercial planting of orchards will be on a reduced scale. This is the opportunity for the home gardeners and for the nurserymen catering to them. Having found that the growing of plants is not such a difficult affair as they had supposed, the gardeners will be inclined to set out berry plants and bush fruits, and, ultimately, orchard trees. Here the nurseryman must be a missionary serving his customer to the best of his ability and teaching him that market varieties are not the best available for the home garden.

"Here in this state," said Mr. Barron, "under the auspices of this very organization, that, in the past, has rendered such valued service in introducing the fanciest fruits to the gardens of New England, it seems fitting at this time to again direct attention to the home standard of qualities in fruits. Have we not lost something in recent years? Is there to be a renaissance in this?"

Soldiers With Visions of Beauty.

"Is the returning soldier to be a factor in our renaissance? Surely there have been much 'coming and going on the face of the earth, vast interchanges of ideas and experiences among the nations of men.' Already, indeed, we have some evidence that those who are returning, despite the

appalling scenes of horror and devastation are coming back with visions of the beauty of the European home garden. They have seen thousands of them, hundreds of thousands of them, scenes of roadside and rural beauty, that have been as bywords to the initiated horticulturist, but who has largely failed hitherto to find a responsive market.

"Not in vain have the poppies on Flanders' fields bloomed before the eyes of our men, for they have seen with their own eyes what the growth of flowers may do to redeem tragedy and horror. They have also seen flowers waving a welcome of color and delight away from the battlefield.

Welcomed With Garlands.

"We have been told how the people of France and England welcomed the troops with garlands and bouquets of flowers. When our troops paraded in Paris on the fourth day of July the civilians along the line of march ran out and handed flowers to the fighting men. I have seen it, you have seen it, in the motion picture films. The people with one accord in giving expression to their joy wanted to 'say it with flowers.'

"Flowers have carried their messages of consolation into the hospitals. There will be a different response when the men again meet flowers around their own homes. If they are not met with flowers don't you think they will be missing something; these hundreds of thousands. They will look for them; can we afford to let their homecoming discover us down at the heels?"

The Horticulturist's Opportunity.

The lecture included a discussion of the opportunity afforded the horticulturist and some of the things he should do in order to take advantage of it. The horticulturist should cultivate his market better than he has in the past. In that connection, it was pointed out that the florists have set a good example with their insistence upon the phrase, "Say it with flowers." In the judgment of the lecturer, the dealer in horticultural products has not learned to put himself in his customer's shoes. The average catalogue does not help the prospective customer as it should. But the nursery industry is growing. It has been suggested that the growing of seeds offers a field for the soldier who has been injured in such manner as to interfere with his undertaking severe manual labor.

The Proposed Embargo Discussed.

Mr. Barron stated at some length the reason for the opposition to the

order of the Federal Horticultural Board placing an embargo upon the importations of many varieties of plants.

FLORICULTURE AT CORNELL DURING FARMERS' WEEK.

N. Y. Fed. of Hort. Societies and Floral Clubs.

The New York Federation of Horticultural Societies and Floral Clubs will meet on Tuesday, Feb. 11, at Ithaca, N. Y. The following program has been arranged:

- 9 a. m. Unusual Plants for Commercial Purposes—Prof. David Lumsden.
- 10 a. m. The Floricultural Outlook for 1919 (15 minute talks):
 - (a) Growing of Cut Flowers—F. R. Pierson, Tarrytown, N. Y.
 - (b) Growing of Potted Plants—Anton Schultheis, College Point, N. Y.
 - (c) The Wholesale Trade—S. S. Pennock, Philadelphia, Pa.
 - (d) The General Retail Trade—F. A. Danker, Albany, N. Y.
- 11 a. m. Garden Roses—Robert Pyle, West Grove, Pa.
- 12 Noon. Reconstruction of Wounded Soldiers—Capt. F. A. Waugh, U. S. A., Base Hospital No. 16, New Haven, Conn.
- 1 p. m. Luncheon, followed by business meeting of the Federation, President F. R. Pierson presiding.

Farmers' week will last from Feb. 10 to 15. Each day some member of the staff will be at the greenhouses to show visitors around and answer questions, and there will be interesting talks on various phases of floriculture by members of the department of floriculture of the college.

A BRITISH VIEW

President Wilson was with us for a few days, and there was a good deal of hero-worshipping and exchange of compliments. We have either heard or read of all the fine spirit of brotherhood that is to be cultivated between the citizens of America and ourselves, and I am just wondering what the President would have had to say if a deputation of British nurserymen had waited on him with a cutting of the Restriction of Plants Importation Order which appeared in the last issue of the H. T. J. and had asked him to interpret this as an earnest of America's desire to forge the bonds of brotherhood.

It does not look any more kindly toward our Belgian and French Allies, and one feels that there must have been a regrettable omission of a few words in the order, for surely the attitude is one that should have obtained toward the enemy countries of Europe rather than ourselves.

Horticultural Trade Journal.

Baltimore, Md.—Richard Vincent, Jr., has called a meeting of the members of the trade in this vicinity and several Congressmen at the Baltimore Club on the evening of Monday, Feb. 10, for the purpose of entering protest against the plant quarantine action of the Federal Horticultural Board,

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CONTENTS

Page

ENDURANCE OF CONIFEROUS TREES AT WEL- LESLEY, MASS.— <i>T. D. Hatfield</i>	125-126
GARDENING AFTER THE WAR— <i>Leonard Barron</i> ...	127
AMERICAN CARNATION SOCIETY—Business Meet- ings—Theodore Dorner, portrait—The Banquet—The Exhibits and Awards—Carnations, <i>C. S. Strout</i> —Car- nation Democracy, illustrated.....	129-131
CLUBS AND SOCIETIES—Gardeners' Conference at Pittsburgh	131
Club and Society Notes.....	134
OBITUARY—Mrs. E. M. Gill, portrait—John T. Mill- iken—Newman S. Wax—Joseph Macgregor—Matthew Richmond—Benjamin H. Shoemaker—Charles J. Hewson—Leon Becker—Charles Adams—William Vogt—Harry F. Meyers—Albert Saxer—Henry Holt- kamp—Mrs. Charles Lohr.....	132-133
LOCAL AND GENERAL NEWS:	
Philadelphia, Boston, St. Louis.....	133
New York.....	139
Chicago	141
SEED TRADE—Proposal to Amend Agricultural Law of New York in Relation to Seeds—Notes.....	135
OF INTEREST TO RETAIL FLORISTS:	
Men of Action, <i>Henry Penn</i> —New Flower Stores..	136-137
FLOWER MARKET REPORTS:	
Boston, Chicago, Cincinnati, Rochester, St. Louis, Philadelphia	139
MISCELLANEOUS:	
Proposed Quarantine of Barberries.....	126
Belgium's Plight.....	126
Some Products Found Worthless.....	126
Floriculture at Cornell During Farmers' Week.....	127
A British View.....	127
Visitors' Register.....	133
Vegetable Show at Boston.....	134
Catalogues Received.....	135
News Notes.....	137

An English trade journalist
 writing from London three
 weeks ago says:

"Glad I am not the only individual who thinks that our
 trade is in for a good time. A well-known specialist is
 preparing for such period as fast as possible from stocks
 that were always large, and remarks in a letter that when
 the gardening element becomes free from the army "we
 shall have the time of our lives." There are so many things
 in gardens that have been neglected, and all that is wanted
 is the opportunity to make such as they were, or better!"

This is most encouraging and shows that England

after four years of privation is enthusiastic for her
 gardens. The same spirit is already manifest here.
 Good times are at hand.

We were much surprised in perusing the
 Well, well pages of a recent official department pub-
 lication to find the following bit of advice:

"A bundle of rags fastened to a pole and soaked in kero-
 sene is an effective weapon to burn out nests of gregarious
 insects, as the apple tree tent caterpillar, fall web worm
 and others."

Perhaps the author of the foregoing bit of advanced
 horticultural information will tell us what will happen
 to the tree limbs under this heroic treatment. We
 should like to see him undertake to put it into practice
 on the premises of any intelligent orchardist. We think
 it would be a case of the shot-gun or the watch dog, and
 would make a good movie film.

Ruthlessness
 var.
 americana

We present in another part of this
 paper an interesting letter for the con-
 sideration of our readers, who will, we
 feel sure, sympathize deeply with Mr.
 Sander in the predicament which
 threatens him and his fellow horticulturists across the
 seas. The name of Sander stands in the annals of hor-
 ticulture too high and too lustrous to be lightly passed
 over by the florists and gardeners of America, unmindful
 of the great debt which they owe to this enterprising
 man. In the orchid history of the last half century, he
 stands without a peer, and we know we speak to no
 unsympathetic ears when we ask every reader of Hor-
 ticulture to do what he can, by influence and appeal,
 to secure a modification of the new example of American
 autocracy, which if allowed to get by, will work so much
 ruin at home and abroad. "Et tu, Brute!"

General condemnation
 of quarantine No. 37

The wave of indignation and
 protest at the action of the
 Federal Horticultural Board
 in excluding from importation
 into this country practically all nursery and florists'
 plants after June 1st is increasing in force daily. It is
 highly significant that the personnel of the Board does
 not include any one having much—if any—actual horti-
 cultural knowledge. We understand that the Board is
 comprised of entomologists, bacteriologists, and plant
 pathologists. Originally there was a horticulturist on
 the Board. Why was he removed? We do not believe
 that Congress ever intended that a quarantine should be
 established against practically all plants and against the
 whole world. This is what the quarantine established
 by the Board virtually does. As we understand the act
 it provided that quarantine should be established
 against localities or plants which might prove to be
 dangerous. It would seem that the Board had not
 only exceeded its authority but had done that which the
 act was not intended to do. It is unfortunate that the
 horticultural interests of the country are jeopardized by
 the drastic action of a Federal Board, which apparently
 has little sympathy with the interests which have been
 —perhaps none too wisely—placed within its power.

THE AMERICAN CARNATION SOCIETY

At the 28th annual meeting of the American Carnation Society in Cleveland, the craft was fairly well represented from all sections of the country. The directors and publicity committees of the S. A. F. were present, stopping on their way to Detroit. Great credit is due the officials of the Carnation Society for their optimism amid the depressing conditions of last fall, and the gratifying success of the meeting is a just and fitting tribute to their perseverance and unshakable faith in the future.

The Business Meetings.

President Strout called the initial session to order promptly at 8 o'clock Wednesday evening and proceeded at once with his address which showed a masterly grasp of present day conditions and contained several important recommendations. The annual report of secretary followed, which was a record of pronounced progress. Treasurer F. E. Dorner being absent, his report was read by the secretary and displayed a healthy condition of the society's finances. Both Chicago and Cincinnati made a bid for the 1920 meeting, the latter withdrawing in favor of the former. Theodore Dorner, of Lafayette, Ind., was unanimously nominated for president; C. W. Johnson, of Morgan Park, Ill., was unanimously chosen vice-president; A. F. J. Baur, of Indianapolis, Ind., was the only choice for secretary, and likewise F. E. Dorner, of Lafayette, Ind., for treasurer. Carl Hagenberger and W. D. Howard were nominated for directors and C. W. Johnson and David S. Ward were unanimously nominated to succeed themselves as judges. Adam Kohankie, of Denver, Colorado, pointed out the justice of giving special consideration in the judging to exhibits which

came from a long distance, which called forth considerable discussion, following which R. C. Kerr, of Houston, Tex., offered the society a prize of \$25.00 for the best keeping carnation at the next meeting, the offer being accepted.

The final business session convened at 10 o'clock Thursday morning and

vidual member in the service; the giving of substantial assistance to English, French and Belgian growers of carnations to help them recover from the devastations caused by the war, to accomplish which a committee, composed of Irwin Berterman, John Dunlop and J. F. Ammann was appointed; this committee was also

instructed to register the emphatic disapproval of the society in connection with the recent drastic ruling of the Federal Horticultural Board, excluding plants; the adoption of a uniform grading of stock, to be known as the American Carnation Society standard grading system, for which purpose C. W. Johnson, S. J. Goddard and E. Saunders were appointed as a committee. David S. Ward gave an interesting account of his experiences in the army in France. The matter of prices in their relationship to costs was given considerable discussion. Adam Kohankie, of Denver, Colorado, declared that with coal at \$2.25 per ton in his section of the country carnations could not be grown for profit at less than an average price of $3\frac{1}{2}$ c.; E. Saunders, of Lewiston, Me., who had paid \$13.00 for his present supply of coal, thought that 6c. was the required average figure; with coal at \$7.00 in Ontario, John Dunlop, of Toronto, placed the lowest average price at $3\frac{1}{2}$ c., while Karl Baum, of Knoxville, Tenn., asserted 5c. to be about the proper average figure.

Henry Penn, of Boston, addressed the meeting on the subject of publicity and George Asmus, of Chicago, made a plea for better co-operation, and uniform prices. The Secretary was instructed to cast the vote electing the officers who had been unanimously nominated at the previous meeting. In the contest between Carl Hagenberger and W. D. Howard for the



THEODORE DORNER, LAFAYETTE, IND.
President-elect American Carnation Society

was devoted largely to the discussion of the recommendations contained in the president's address, which had been committed for especial consideration. They were as follows: A fitting recognition of the services of members of the society in the army, to carry out which, the secretary was instructed to send a resolution of thanks and appreciation to each indi-

directorship for three years, a ballot was taken, resulting in 15 votes for the former and 16 for the latter. A meeting of the directors of the society was announced for immediately following adjournment. Chicago was unanimously chosen as the meeting place in 1920.

The Banquet

The crowning event of the meeting was the banquet, held on the evening of the last day. The local committee planned to make it a feature and had prepared an excellent program of music, recitations, speeches and dancing. There were approximately 200 present and Herman Knoble was toastmaster. Charles S. Strout had for his topic "Carnations," and handled it in a masterly manner. Theodore Dorner, president-elect for the coming year, selected the occasion for thanking the society for the honor bestowed upon him and made an earnest plea for the next meeting in Chicago. The subject assigned J. F. Ammann, was "Peace," and the S. A. F. president acquitted himself in his usual capable manner. George Asmus, speaking upon the "Past, present and future of the retail business," emphasized the necessity for better co-operation and superior business methods. William H. Gammage dealt with the many and intricate problems of reconstruction in a fine address entitled "Our friends and neighbors." Charles H. Grakelow, the Philadelphia live wire, complimented the Cleveland Florists Club upon its great work and lauded the spirit of enterprise shown by it. Henry Penn, of Boston, spoke upon the subject nearest his heart—Publicity, in his accustomed convincing manner. Dancing was done between the courses and following the banquet, which proved very popular with both local, as well as visiting members.

The Exhibits.

While the exhibits were not large, they were never surpassed in quality; nor were they ever drawn from a greater distance. Dorner's wonderful new carnation, Laddie, was the real sensation, while Gude's splendid light pink sort, Democracy, was given much deserved praise. Strout's yellow seedling, Sunshine, is justly considered the best carnation of its color yet introduced. Brenkert's new variety, Denver, brought by Adam Kohankie, attracted much attention because of its great keeping qualities. Despite the long journey of 2,000 miles, it appeared as crisp and fresh as any carnation in the show, and was as erect on the second day as on the first. W. D. Howard's very dark sort, Bernice, elicited much favorable comment, and its rich crimson hue added much to the general effect of the display. Baur and Steinkamp's fine new introduction, Ruth Baur, which won the Dorner gold medal, shewed to splen-

did advantage, and is sure to prove a valuable addition to the best commercial varieties. Some fine vases of such sterling sorts as Belle Washburn, Mrs. C. W. Ward, Pocahontas, White Enchantress and Enchantress Supreme were shown, and are numbered among the prize winners.

In addition to the competitive classes there were a number of vases arranged for effect and several table decorations staged by Cleveland retail florists. This was done for the purpose of demonstrating to the public the superb decorative qualities of the carnation, and although a somewhat new departure from the usual practice, proved a very attractive and successful feature. Perhaps for the first time there were chrysanthemums on display, the variety being the Hamburg Late White and Pink, shown by W. F. Kasting Co., Buffalo. A vase of Hill's new rose, Premier, and A. N. Pierson's Evelyn occupied prominent places and were immensely popular with the public, hundreds of whom evinced a lively interest in the exhibition.

The Awards.

There were about 4,000 blooms in the show, counting fourteen classes. The judging was late. The awards were:

One hundred blooms, any variety—Joseph H. Hill Co., Richmond, Ind., A. C. S. gold medal, on Laddie; S. J. Goddard, Framingham, Mass., A. C. S. silver medal, also on Laddie.

Fifty blooms, any undisseeded variety—Strout's, Biddeford, Me., S. A. F. silver medal, on Sunshine, formerly Seedling No. 809; Jos. H. Hill Co., S. A. F. bronze medal, on Topsy.

One hundred blooms, any undisseeded seedling—Baur & Steinkamp, Indianapolis, Dorner gold medal, on Ruth Baur, formerly No. 414.

Fifty blooms, any novelty to qualify for Dorner medal contest in 1920—Strout's, on Sunshine; Peter Fisher, Ellis, Mass., on Red Cross.

Fifty blooms, any seedling for certificates of merit—Strout's, on Sunshine, scoring 89 points; Strout's, on White Delight, scoring 85 points.

Twelve blooms, for preliminary certificate—A. J. Stabelin, Redford, Mich., on No. 8A, scoring 85 points; A. J. Stabelin, on No. 20 L, scoring 85 points.

One hundred blooms, any variety disseminated prior to July, 1918—Jos. H. Hill Co., on Laddie.

Fifty blooms, any variety disseminated prior to July, 1918—Jos. H. Hill Co., on Laddie.

Vase arranged for effect; 100 to 150 blooms—S. J. Goddard, silver cup offered by the Chicago Feed & Fertilizer Co., value \$75.

Fifty blooms, not less than five varieties—Strout's, silver cup offered by Hitchings & Co.

Fifty blooms, any white—J. F. Ammann Co., Edwardsville, Ill., first, on White Enchantress; Pittsburgh Cut Flower Co., Pittsburgh, second, on Matchless.

Fifty blooms, any light pink—J. F. Ammann, first, on Enchantress Supreme; George Brenkert, Denver, second; Gude Bros. Co., Washington, D. C., third, on Democracy.

Fifty blooms, any dark pink—Cleveland Cut Flower Co., Cleveland, first, on Mrs. C. W. Ward; Baur & Steinkamp, Indianapolis, second on Rosalia.

Fifty blooms, any red—Pittsburgh Cut Flower Co., first, on Belle Washburn.

Fifty blooms, any other color—Baur & Steinkamp, first, on Pocahontas.

Sweepstakes in the preceding five color classes for fifty blooms—Pittsburgh Cut Flower Co., on Belle Washburn.

S. J. Goddard, of Framingham, Mass., won the Fred Burki prize of \$10 for the best keeping vase of Carnations on exhibition with Laddie.

Honorable mention was awarded as follows: To Rose Premier, exhibited by E. G. Hill Co., Richmond, Ind.; to Carnation Red Cross, exhibited by Peter Fisher; to vase of mixed seedlings, exhibited by Joy Floral Co., Nashville, Tenn.; to Hamburg

chrysanthemums, exhibited by W. F. Kasting Co., Buffalo; to vase of Carnation Laddie, exhibited by J. M. Gasser Co., Cleveland.

JUDGES: Joseph J. Hill, John Dunlop, William Nicholson, C. S. Strout, David S. Ward.

CARNATIONS.

President Wilson speaks of "A tide in the hearts of men" setting toward better living conditions in all lands. A tide, gaining in strength, seems to be flowing through the hearts and minds of florists all across the land and carnation men are feeling it perhaps more strongly than other members of the fraternity. This was brought out at the Cleveland meeting of the A. C. S., and a little run through the middle west gives added force to the thought.

Seedlings of promise and sports of more than usual interest were in evidence. Sections of the county rarely sending blooms or even growers to the annual convention were represented by well grown flowers and enthusiastic members. Denver, Col., Knoxville, Tenn., Washington, D. C., and Biddeford, Maine, and most sections within these points were well represented with new and interesting sorts. The Boston party had at least five seedlings and two sports worthy of close observation and were awarded two cups, two medals, the gold for the best keeping winner and several close seconds.

Laddie, which is doing as much as any variety since Mrs. Thomas W. Lawson to put the carnation in its proper place in the favor and respect of the buying public was shown at its best at Cleveland, winning the A. C. S. gold medal and the Fred Burki gold prize for the best keeping vase.

Sunshine, the new yellow, won the S. A. F. & O. H. medal, ran a close second for keeping, and was given the place of honor at the speaker's table in the banquet hall where its color held strong under the artificial light.

The work of the judges was received with especial satisfaction although some close decisions were made. Scores as high as ever awarded by the society were given and with the wide range of colors and splendid keeping qualities perhaps this 1919 meeting of the A. C. S. has done as much for the carnation as any of the larger exhibits.

Cutting of the newer sorts were in demand; thousands more than were offered could have been disposed of.

CHARLES S. STROUT.

Baltimore, Md.—Henry Baynes has purchased the business of B. C. Fox, 733 Columbia Ave.

CARNATION DEMOCRACY.



Photograph taken January 20, 1919. by Gude Bros., Washington, D. C.

We here present a photograph of a house of Gude Bros.' sensational new "Democracy" carnation. The photograph will speak for itself and no comment is necessary. Gude Bros. are not offering any stock for sale at this time.

Mr. Gude is of the opinion that this is the best money maker extant. They

are growing three houses of this containing twenty-five thousand plants and the cut for the past four months has been more than anybody could ask. None of these flowers have been sold for less than sixteen dollars a hundred and the great majority of them retailed at from three to five dollars per dozen.

This is the carnation that took the

first prize over all comers at the Grand Central Palace in New York last spring and was on exhibition for the carnation lovers to see and examine in Cleveland, Ohio, last week.

The color also is in a class by itself reminding one of that magnificent glowing light pink peony. For wedding work and funeral clusters it is perfect.

GARDENERS' CONFERENCE AT PITTSBURGH.

The gardeners' conference, held at the Hotel Chatham, Pittsburgh, January 30th, under the auspices of the Pittsburgh and vicinity members of the National Association of Gardeners, brought together a representative gathering of gardeners from western Pennsylvania.

Following the reception from 6 to 6.30 o'clock, David Fraser of Pittsburgh, chairman of the conference, introduced Robert Weeks of Cleveland, president of the national association, who spoke on the "Gardener's Relation to his Employer," presenting the subject in a very able manner.

After a discussion of Mr. Weeks' address, Mr. Adolph Kruhm was introduced by the chairman to speak on the inconsistencies of the plant import exclusion act and he presented some incontrovertible facts on the absurdities of the measure, which were embodied in some correspondence that passed between the Federal authori-

ties and himself. A general discussion ensued which resulted in the passing of a resolution, instructing the secretary of the national association to wire a strong protest to Secretary Houston of the Department of Agriculture.

Mr. Wm. Falconer, that venerable gardener of Pittsburgh, was the next speaker who chose as his subject the "Gardener and His Profession," reviewing the work of professional gardeners in this country. Mr. Falconer referred to a number of men, holding high positions in the public service and commercial fields, who came from the ranks of private gardeners.

M. C. Ebel, secretary of the national association, spoke on the activities of the National Association of Gardeners and its general purposes.

At the conclusion of the addresses of the evening, a buffet supper was served which was preceded by a social hour.

The conference was in charge of a local committee of which David Fra-

ser was chairman and James Barnet of Sewickley, secretary.

The following protest was telegraphed to Secretary Houston at Washington after the conference.

"At a conference of the National Association of Gardeners held in this city, which association represents the profession of gardening in this country, a resolution was adopted most emphatically protesting against the plant import exclusion act, known as Quarantine Bill No. 37, as being not only most unfair, unreasonable, and detrimental to American ornamental horticulture but also most inconsistent in its construction, casting a slur on the ability and intelligence of American entomologists and pathologists, which reflection, strange as it may seem, appears to have the approval of the scientists themselves. The resolution urges that you reconsider this arbitrary act which is certainly not in harmony with the spirit of democracy our government is endeavoring to introduce to the whole world."

Obituary

Mrs. E. M. Gill.

Mrs. Ellen M. Gill, well known for half a century as a local florist in Medford, Mass., and in all the affairs of the Massachusetts Horticultural Society until the last few years of senile infirmity, died at her home in Medford on January 30, in her ninetyeth year. She was born in Boston in 1830, and was proud to trace her direct descent from John and Priscilla Alden of Mayflower fame. She moved to Medford in 1854 where in 1871 she built her first greenhouse. Since that time she has been a contributor to the shows of the Massachusetts Horticultural Society at practically every exhibition large or small, of cut flowers, baskets, bouquets, etc., and was one of the most widely known of the frequenters of the society's meetings and shows. She was intensely interested in flowers and loved them for their own sake. Within a few years the Gardeners' & Florists' Club voted her an honorary member. She was also a member of the Ladies S. A. F. She leaves her son, George B. Gill, and two daughters, Miss Eliza M. Gill and Miss Adeline B. Gill of this city. The funeral took place at 2 Saturday afternoon.

John T. Milliken.

We regret to announce the death of John T. Milliken, largest stockholder of the St. Louis Wholesale Cut Flower Co. He owned a range of greenhouses at Crescent, Mo., of over 100,000 feet of glass and produced some of the finest Russell Roses sent to the St. Louis market. He died Friday, January 31. The body was cremated and his ashes buried at Bell Fountaine Cemetery, Feb. 2.

Newman S. Wax.

Newman S. Wax died at his home in Boston, Mass., Sunday, Feb. 2, in his 90th year. Mr. Wax was the oldest florist in Boston in years of business when he retired some time ago. Until recently he was active. Mr. Wax came to this country a young man and made his home in Boston for more than 60 years. He was born in Germany, but became a citizen soon after his arrival here.

It is believed a contributing cause of his death was grief occasioned by the report of the recent death of his daughter, Mme Flora Welldon, a noted opera singer, in Paris, who had de-

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voted herself to war work from the day that France entered the war, continuing until its close. Mr. Wax is survived by his wife, Rosalie; one



MRS. E. M. GILL

daughter, Mme Frances Leichtentritt; four sons, George, Henry, Samuel and Martin.

Joseph MacGregor.

Joseph MacGregor, superintendent of the Edgar T. Scott estate at Lansdowne, Pa., for many years, passed away on February 1st, aged 71. Mr. MacGregor was a gardener of the old school born and bred in the business and from first to last an enthusiast in it. He was a prominent exhibitor and prize winner at all the big Philadelphia shows and in later years when partly retired took a keen delight in the judging end and in doing his share in the work of the various committees. A man of sterling character, amiable personality and well liked by everyone he will be long remembered and we all delight in dropping a flower of thought and admiration to his record of a well spent lifetime.

Matthew Richmond.

Matthew Richmond, superintendent on the estate of W. B. Cochrane, died from pneumonia at his home in Charles avenue, Baltimore, on January 23d. Mr. Richmond was formerly in charge of the Halliday Bros.' greenhouses on North avenue, and was well known among the members of the S. A. F., especially the bowling element. At the time of the convention held in Baltimore, 1911, he was in charge of the Fifth Regiment Armory where the trade exhibit was staged. He leaves a widow and three sons.

Benjamin H. Shoemaker.

The infirmities of age caused the death Tuesday, Feb. 4, at his residence, No. 535 Church lane, Germantown, of Benjamin H. Shoemaker, retired manufacturer of glass, and for 21 years president of the Pennsylvania Hospital, aged 91 years. He is survived by two daughters, two sons, 10 grandchildren and four great grandchildren. The funeral was held Thursday afternoon.

Charles J. Hewson.

We regret to learn of the death of Charles J. Hewson, a florist of Buffalo, N. Y., of pneumonia. Mr. Hewson was a long time follower of the florist business, growing sweet peas and carnations of high quality, and was widely known and respected in the florist trade of Buffalo. He was a member of the Buffalo Florists' Club. The business will be continued by his widow.

Leon Becker.

Leon Becker, lessee of the Hawarth Greenhouses in Farmington, Ct., which were damaged to the extent of \$5,000 by fire recently, died on Jan. 26th in a sanitarium in New York city, where he had been placed since the fire. Since that time, Mr. Becker, who was

a sufferer from diabetes, had been in an extremely nervous state. He leaves a wife and four small children.

Charles Adams.

Charles Adams, of Butte, Mont., died on Jan. 5th of influenza. He was formerly employed as foreman of the Salt Lake Floral Co. and had attained a wide reputation as a good grower and an esteemed member of the craft. He leaves a widow and one daughter, also one son who is with the army of occupation abroad.

William Vogt.

William Vogt, of Camden, N. J., was struck by an auto when in Philadelphia, January 22d, and died on the night following from injuries received. Mr. Vogt was 64 years of age and highly esteemed. He has conducted the flower business for some years past since the death of his father.

Harry F. Meyers.

Harry F. Meyers, of Delphi, Ind., died recently from an attack of pneumonia, leaving a widow and four children. Mr. Meyers has been in business in Delphi for nine years, and associated latterly with Edwin Baum.

Albert Saxer.

Albert Saxer, having a retail flower store in Frankford, Pa., died recently from the result of an attack of influenza. He is survived by a widow and one son.

Henry Holtkamp.

One of the old florists of the town died at Dallas, Tex., on January 12th. He is survived by his widow, two sons and one daughter.

Mrs. Charles Lohr.

Mrs. Charles Lohr, wife of Charles Lohr, of Mount Vernon, N. Y., died on January 22d of pneumonia.

ST. LOUIS.

Wednesday, February 5th the Victory banquet to be given by the florists of St. Louis and vicinity at Planters Hotel promises to be a very elaborate affair. A general get together gathering will take place.

J. Wm. Patton, formerly with Webb Wm. C. Smith Wholesale Floral Co., will shortly open a retail store right in the wholesale district.

H. G. Berning and wife have returned from Cleveland where they were in attendance at the American Carnation Society Convention.

New Albany, Ind.—The range of greenhouses of the F. Walker Co. has been leased to G. L. Nance.

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ROSES

Place your reserve orders now. GOOD STOCK will be scarce at planting time. We offer strong 2-year plants, dormant or potted.

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BOSTON.

The subject for discussion at the February meeting of the Horticultural Club of Boston was Carnations and the recent convention.

Arnold Janiten has retired from the firm of Janiten & Wollrath, successors of Fred Matheson at Clematis Brook, Waltham, Mass. The firm will henceforth be known as Wollrath & Sons.

A recent letter from E. H. Wilson, at that time in Korea, brings the interesting news that he is booked to sail from Yokohama for America on Friday, Feb. 7th, having completed his mission of plant discovery in that country.

PHILADELPHIA.

There was a family celebration in the Burton household at Chestnut Hill on the 28th of January. Gran'pop John's 67th came along that evening and the folks at home had something to say about it. While we are not one of the clan, we take the liberty of voicing the sentiments of thousands of outsiders and in voicing our and their sentiments with "Many Happy Returns."

VISITORS' REGISTER


Philadelphia — W. Cowperthwaite, Holm & Olson, St. Paul, Minn. (on his way home from the front). T. O'Conner, Providence, R. I.; Charles Robinson, Boston; Samuel McClements, Pittsburgh, Pa.; Max Schling, New York City.

New York—Paul R. Klingsporn, Chicago; Geo. B. Hart, Rochester; Patrick Welch, Boston; E. P. Tracey, Albany; G. X. Amrhy, New Haven; Mr. and Mrs. Philip Breitmeyer, their son, Harry Breitmeyer, just returned from service abroad, and Mrs. Gray, all of Detroit, Mich.

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VEGETABLE SHOW AT BOSTON.

In connection with the First Annual Public Meeting of the State Department of Agriculture to be held at Boston in Horticulture Hall on February 11, 12, 13 and 14, 1919, the Department offers the following prizes for exhibits of vegetables, to be competed for under the following regulations:

CLASS I.

Limited Collection Exhibit from Market Gardeners' Association of Massachusetts.

Collection of ten vegetables to include at least two greenhouse crops, to be selected from the following list: Beets, carrots, parsnips, turnips, winter radishes, salsify, horse radish, cabbage, celery, leeks, onions, squash, lettuce, tomatoes, cucumbers, radishes, spinach, parsley, mint, cress, forced rhubarb. These to be exhibited by established associations of Massachusetts vegetable growers; all products to have been grown during 1918-1919, by members of the respective associations.

Not less than six (6) specimens of each kind to be included in the competitive exhibit. A free use of decorative vegetables allowed in so far as the 6x10 space allowed for each exhibit will permit.

Quality, 80 per cent, and display, 20 per cent., to be the basis for judging the exhibits. All exhibits must be in place by 12 o'clock noon, February 10th. Each vegetable must be marked with the variety name, and the collection by a card, 8 inches by 12 inches, giving the name of the association making the exhibit. First, \$50; second, \$30; third, \$15; fourth, \$5; total, \$100.

CLASS II.

Exhibit of vegetables selected for seed production by individuals in 1919—Parent seed stock of carrots, beets, parsnips, squash, one class for each, 12 specimens required, excepting squash, of which 4 specimens required; uniformity, trueness to type, market quality, table quality, freedom from disease, to be basis for judgment. First, each class, \$5; second, \$3; third, \$1.

CLASS III.

Exhibit of vegetable seed grown in 1918—Section A to consist of not less than one pound of cleaned seed, grown in 1918 by a Massachusetts vegetable grower for his own use. To be judged according to color, plumpness, freedom from impurities, uniformity. Seed must be of one of the following kinds: beet, carrot, onion, parsnip, radish, spinach. First, \$5; second, \$3.

Section B to consist of not less than one ounce of cleaned seed, grown in 1918 by a Massachusetts vegetable grower for his own use. To be judged as for Class A. Seed must be one of the following kinds: cabbage, celery, dandelion, lettuce, pepper, tomato, turnip. First, \$5; second, \$3; third, \$1.

All seed to be the property of the respective exhibitor on request, otherwise to become the property of the State Department of Agriculture.

CLUB AND SOCIETY NOTES.

The Newport Horticultural Society has voted to have a flower show in the Convention Hall at Newport Beach on June 25 and 26.

The State Florists' Association of Indiana held a meeting on Feb. 4th at the establishment of Smith & Young Co., Indianapolis.

The eleventh annual exhibition and convention of the American Sweet Pea Society will be held in co-operation with The Horticultural Society of New York at the Museum of Natural History, New York City.

The officers of the New Orleans Gardeners' Club were unanimously re-elected for the coming year at the meeting of the club held January 2. A pleasant social gathering and supper followed the business meeting.

The following officers have been elected by the New Bedford (Mass.) Horticultural Society: L. J. Hathaway, Jr., president; Joseph A. Nolet, vice-president; Walter K. Smith, financial secretary; J. M. Taber, secretary; Walter A. Luce, treasurer.

The Western Association of Nurserymen, who held their annual convention at Kansas City, elected officers as follows: president, Earl D. Needham, Des Moines, Ia.; vice-president, E. P. Bernardin, Parsons, Kan.; secretary-treasurer, Geo. W. Holsinger, Rosedale, Kan.; executive committee, C. G. Marshall, Arlington, Neb.; C. C. Mayhew, Sherman, Tex.; E. E. May, Shenandoah, Ia.; J. H. Skinner, Topeka, Kan.; H. D. Simpson, Vincennes, Ind.

Providence, R. I.—Many contemplated improvements in the parks of Providence by Supt. F. C. Green will have to be abandoned if the Federal Horticultural Board's embargo on imported decorative plants is sustained. Mr. Green filed a protest against this governmental action some weeks ago, since when he has placed the matter in the hands of Congressman Stiness.

Providence, R. I.—Charles S. Macnair has been elected a member of the Providence Chamber of Commerce.

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STANDARD
INSECTICIDE
SOLUBLE IN WATER
NO ODOR NO POISON

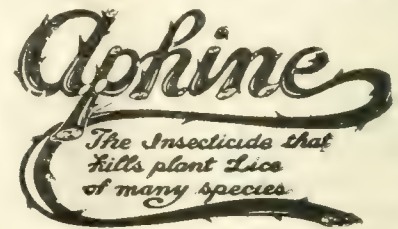
Save your plants and trees. Just the thing for greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrips, Red Spider, Black and Green Fly, Mites, Ants, etc., without injury to plants and without odor. Used according to direction, our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

½ Pint, 80c.; Pint, 50c.; Quart, 90c.; ½ Gallon, \$1.50; Gallon, \$2.50; 5 Gallon Can, \$10.90; 10 Gallon Can, \$20.00. Directions on package.

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The Recognized Standard Insecticide.
A spray remedy for green, black, white fly, thrips and soft scale.

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For mildew, rust and other blights affecting flowers, fruits and vegetables.

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For eel worms, angle worms and other worms working in the soil.

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SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, F. W. Bolgiano, Washington, D. C.; First Vice-President, Wm. G. Scarlett, Baltimore, Md.; Second Vice-President, David Burpee, Philadelphia, Pa.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

Proposal to Amend Agricultural Law of New York in Relation to Seeds.

There has recently been introduced into the New York State Assembly, by Mr. Witter, a new seed bill entitled.

"No 185. Int. 183. An act to amend the agricultural law, in relation to agricultural seeds and the sale thereof." The objectionable features of which have been pointed out to a large number of dealers throughout the State, in a letter of which we enclose a copy herewith. This would no doubt be of interest to the seed trade.

Yours very truly,

MARSHALL H. DURVEA.

The letter is as follows:

Assemblyman Witter, of Tioga County, has introduced into the Assembly at Albany a bill, entitled:

"No. 185 Int. 183, January 20th, 1919. An act to amend the Agricultural law, in relation to Agricultural seeds and the sale thereof."

As this bill is of vital importance to anyone handling seeds, would suggest that you telegraph your assemblyman to send you a copy of the bill at once.

In examining this bill you will note it calls for an absolute percentage of purity and germination, but this, as you no doubt know, is an impossibility, as a margin of tolerance is always necessary. We have, therefore, asked that where the word "percentage" is used, to insert before "percentage" the word "approximate".

Would also call your attention to that part of Section 344 which deals with the exemptions from the provisions of the act, reading: "When seeds are not sold from a place of business where agricultural seeds are kept for sale, as such, it shall be presumptive evidence that such seeds were not sold or exposed for sale for seeding purposes."

This exemption would permit the farmers to buy seeds from other people and sell them, which would act as a discrimination against the seed dealer, and we have asked that this clause be eliminated.

Have written Mr. Witter, calling his attention to these objections and think if we secure the desired modifications,

FOUR NEW GIANT STOCKS

GREENHOUSE SAVED SEED

LENOX PINK

LENOX MAUVE

LENOX WHITE

Each color separate. Tr. pkt. 25c.; 1/8 oz. \$1.25

The LENOX STOCKS are great improvements on the Beauty of Nice Strain. They bloom in four to five months from sowing and under good cultivation, (disbudded), attain a height of 2½ to 3 feet, producing a gigantic flower spike bearing beautiful large double flowers, the actual seed offered above has produced as much as 85 % doubles.

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With our Stock Seed Farm at Grass Lake, Mich., and our growing stations in every part of the United States where seeds are grown successfully, all in charge of capable and experienced men, we are equipped for and are producing

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of all kinds in quantity and of highest quality.

Glad to quote for present delivery or on growing contract for crop of 1919.

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a hearing would not be necessary and the bill could be adopted.

As soon as you have received a copy of the bill, would be glad to have your views on the same.

Yours very truly

MARSHALL H. DURVEA

New York State Correspondent American Seed Trade Association.

P. O. Box 202, City Hall Station, New York, N. Y.

Notes.

Buffalo, N. Y.—Geo. B. Egerton succeeds C. H. Manley as manager of the Harvard Seed Co.

Brandon, Manitoba—A. E. McKenzie Company are building an extension to their seed warehouse. It is of concrete and steel construction.

Oskaloosa, Ia.—The seed department of the A. E. Peasley business has been purchased by H. H. McVeigh, who will open a large seed store at 118 High Ave.

CATALOGUES RECEIVED.

J. M. Thorburn & Co., New York.—Thorburn's Seeds, 1919. This is the annual Spring catalogue of this eminent house founded in 1802, and we think it is better than ever. There are quite a few novelties and specialties in vegetable and flower seeds, showing that the business is gradually coming into progressive condition once more after the years of turmoil. Messrs. Thorburn's catalogue is exceedingly well printed and the classification of the different departments is excellent. The illustrations are well placed and attractive. Altogether, it ought to make a good Spring business getter.

H. F. Michell Co., Philadelphia, Pa.—Michell's Wholesale Price List for Market Gardeners and Florists. This publication includes both vegetable and flower seeds as well as a very complete list of florists' and gardeners' sundries.

W. W. Johnson & Sons, Ltd., Boston, Eng.—Abridged wholesale catalogue of high class vegetable seeds for 1918-1919.

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Of Interest to Retail Florists

MEN OF ACTION.

Just a word of commendation to the delegates of the S. A. F., at our meeting just held at Hotel Statler, Pres. J. F. Ammann in the chair. If the florists generally throughout the country could have seen the earnestness and zeal with which the various members of the different committees performed their duties, they would feel the needs of the S. A. F. as the guardian angel of the various affiliated associations.

Two things loomed up largely at this session: The publicity campaign and its work and the bill for prohibiting any further importation of plants, bulbs, etc., after June 1st, 1919. They were both discussed fully and acted upon in a manner befitting their importance. Everybody present entered into the spirit of the problems and they should both bear fruit as the evidence of the meeting will prove later. The floral craft of the country may feel very proud of the achievement of the various committees in their deliberation on every topic of national importance, so that their various interests will be looked after and right here, it may be said that our Washington representative, William F. Gude, is looking after all interests of the Society in the Capital City. The meetings held were of vital interest and every director was "on the job at all times."

A great deal of credit is due the Detroit Florists' Club, and also to Philip Breitmeyer, for the most generous hospitality shown the directors and guests during our stay in Detroit.

The meetings held will linger a long time in the minds of those present, both for the enthusiasm and volume of good that will come of the activities to follow, and which will be productive of beneficial results to all florists.

Our Campaign of "Say it with flowers" has taken on wonderful impetus, so much so that your committees have raised the slogan of \$100,000.00 for

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1919 for our publicity campaign, and those present at the meeting raised their subscriptions above last year, so enthusiastic were they all.

The Society of American Florists and O. H. are surely doing a wonderful work-getting behind this campaign—and have subscribed \$5,000 as their part of this year.

Now, let all florists, retailers, wholesalers and growers alike, get in line and show the same spirit, the spirit of "all for one and one for all."

Send your subscription now and it will be one of the best investments for expenditure you ever made.

Yours very truly,

HENRY PENN.

Chairman, National Publicity Com.

NEW FLOWER STORES.
Rochester, Minn.—Emil Rieple.
Hempstead, N. Y.—R. J. Rogers,
Main St.

Portland, Ore.—Maryland Florists,
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Salt Lake City, Utah—Sanders Floral
Co., Main and South 2nd St.

Arkansas City, Kan.—A. C. Floral
Co., retail store on Summit St.

Moultrie, Ga.—Moultrie Floral &
Greenhouse Co., a down-town retail
store.

Flatbush, Brooklyn, N. Y.—Victory
Florist, 2851 Church Ave.; Christ
Rotas, 198 Flatbush Ave.

NEWS NOTES.

Baltimore, Md.—George J. Muhly
will open shortly a new wholesale es-
tablishment, dealing in flowers and
supplies, at 512 St. Paul street.

St. Paul, Minn.—The rose houses of
J. Christensen on Dale street, which
have been closed for the winter, have
been reopened.

Toronto, Ont.—A. Sheridan has ac-
quired the growing establishment of
Colin Nesbitt, and on account of poor
health has given up his retail store
on Yonge St.

Quality and Reliability
WARBURTON
FALL RIVER, MASS.

Deliveries of Flowers and Plants
in FALL RIVER and contiguous
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BEACON **ALICE**

\$35.00 per 1000

Can also furnish most any other variety.

THE LEO NIESSEN CO.

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Asparagus Plumosus Nanus

New Crop, Greenhouse Grown Seed.
Per 100, 45c.; per 1000, \$3.50.

PRIMULA OBCONICA GRANDIFLORA

Home grown. Saved by florists who know their business. Ready now.

GIGANTEA ROSEA. Seed saved from plants with large flower trusses and a beautiful shade of pink. Trade pkt., (about 1,200 seeds), \$1.50.

MIXED COLORS. Trade pkt., 50c.; 1-32 oz., \$1.25

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CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
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WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Feb. 6		ST. LOUIS Feb. 3		PHILA. Feb. 3	
Roses						
Am Beauty, Special	50.00	to 75.00	50.00	to 60.00	.....	to 100.00
" " Fancy and Extra	35.00	to 50.00	30.00	to 40.00	60.00	to 75.00
" " No. 1 and culls	10.00	to 20.00	12.00	to 20.00	30.00	to 40.00
Russell	12.00	to 25.00	12.00	to 25.00	25.00	to 40.00
Hadley	12.00	to 25.00	5.00	to 10.00	10.00	to 40.00
Mock, Key	8.00	to 20.00	5.00	to 25.00	.....	to
Arenberg, Hoosier Beauty	8.00	to 20.00	10.00	to 15.00	10.00	to 25.00
Ward, Hillingdon	8.00	to 20.00	6.00	to 10.00	.....	to
Killarney, Key, Taft	8.00	to 20.00	8.00	to 15.00	10.00	to 25.00
Ophelia, Sunburst	8.00	to 20.00	10.00	to 25.00	10.00	to 25.00
Carnations	4.00	to 6.00	5.00	to 8.00	6.00	to 10.00
Cattleyas	50.00	to 75.00	60.00	to 75.00	40.00	to 50.00
Lilies, Longiflorum	10.00	to 25.00	.....	to 20.00	20.00	to 25.00
Lilies, Speciosum	8.00	to 30.00	.....	to	6.00	to 8.00
Lily of the Valley	4.00	to 8.00	8.00	to 10.00	.....	to
Snapdragon	8.00	to 12.00	8.00	to 10.00	15.00	to 20.00
Violets	.25	to 1.00	.50	to .75	1.00	to 1.50
Narcissus	3.00	to 4.00	3.00	to 6.00	6.00	to 8.00
Calendula	2.00	to 4.00	3.00	to 5.00	8.00	to 10.00
Sweet Peas	2.00	to 4.00	1.00	to 2.00	1.50	to 3.00
Gardenias	.....	to 100.00	.....	to	50.00	to 60.00
Adiantum	1.00	to 1.50	.....	to 1.50	1.50	to 2.00
Smilax	.....	to 25.00	20.00	to 30.00	.....	to 25.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	35.00	to 50.00	40.00	to 100.00	50.00	to 60.00

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ROSES, CARNATIONS

AND ALL OTHER SEASONABLE STOCK

Shipping orders have most careful attention always

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Flower Market Reports

The market has taken **BOSTON** quite a slump during the past week and trade has fallen off to a marked extent for the first time since last September. With a more abundant supply of flowers of every description appearing in the market each day and a shortening up in the demand the inevitable result has followed and prices have reached a level that in former years would be called normal. The quality of stock being received is excellent and roses still remain the popular favorite. Carnations are also about the best that have been seen and violets have also improved. Lilies are scarce and with gardenias are the only items in the list that have held to their former prices. Sweet peas and bulbous stock while becoming more plentiful still continue to move slowly.

Prices are holding firm **CHICAGO** with a tendency to increase rather than decrease as Valentine's day approaches, bringing increasing demand for high grade stock. Last year the florists were unanimous in calling this holiday the greatest of its kind that the trade had ever known and with the return of peace and the thousands of boys home again, and the special advertising campaign in its behalf, the indications are for even larger results this St. Valentine's day. The shortage of stock in practically all lines continues a marked feature. Roses are off crop and the reduced space devoted to carnations makes these two staples fall below the regular demand. Spring bulbous stock in pans make a good showing in the retail windows and add to the cut flower sections. The cooler weather has been in favor of the violet growers. Lilies are more plentiful but not yet sufficient for the demand. The funeral trade continues to be exceedingly active and every particle of stock is used up each day in the great demand for sprays, designs, etc.

Business is excellent. **CINCINNATI** The supply is rather short while the demand is heavy and all receipts are bringing top prices. The call for stock from out of town is heavy. Roses have become very scarce. Receipts are far below normal and do not begin to care for all demands for them. Carnations are becoming scarce and all that come into the market clear readily. The cut of lilies has shortened somewhat during the past week. The receipts in sweet peas, however, are on the increase and many excellent blooms are finding their way into the market and

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Feb. 3		CHICAGO Feb. 3		BUFFALO Feb. 3		PITTSBURG Feb. 3	
Roses								
Am. Beauty, Special	50.00	to 75.00	75.00	to 100.00	60.00	to 75.00	50.00	to 60.00
" " Fancy and Extra	30.00	to 40.00	50.00	to 60.00	25.00	to 50.00	25.00	to 40.00
" " No. 1 and culls	8.00	to 25.00	15.00	to 35.00	5.00	to 20.00	6.00	to 30.00
Russell	15.00	to 30.00	10.00	to 40.00	8.00	to 20.00	10.00	to 25.00
Hadley	15.00	to 25.00	15.00	to 25.00	8.00	to 15.00	.....	to
Euler, Mock	15.00	to 25.00	15.00	to 25.00	6.00	to 15.00	10.00	to 25.00
Arenberg, Hoosier Beauty	10.00	to 20.00	8.00	to 30.00	6.00	to 10.00	.....	to
Ward, Hillingdon	8.00	to 15.00	6.00	to 18.00	6.00	to 8.00	6.00	to 15.00
Killarney, Key, Taft	8.00	to 15.00	6.00	to 20.00	6.00	to 15.00	6.00	to 15.00
Ophelia, Sunburst	8.00	to 25.00	8.00	to 20.00	6.00	to 15.00	8.00	to 25.00
Carnations	4.00	to 8.00	3.50	to 8.00	3.00	to 6.00	4.00	to 6.00
Cattleyas	60.00	to 75.00	60.00	to 90.00	60.00	to 75.00	50.00	to 60.00
Lilies, Longiflorum	.....	to 20.00	18.00	to 20.00	15.00	to 20.00	20.00	to 25.00
Lilies, Speciosum	.....	to .....	.....	to	8.00	to 10.00	.....	to
Lily of the Valley	8.00	to 10.00	6.00	to 10.00	8.00	to 10.00	8.00	to 10.00
Snapdragon	10.00	to 15.00	10.00	to 20.00	8.00	to 25.00	6.00	to 8.00
Violets	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50	.75	to 1.25
Narcissus	6.00	to 8.00	4.00	to 8.00	3.00	to 4.00	.....	to
Calendula	4.00	to 5.00	4.00	to 6.00	4.00	to 6.00	4.00	to 6.00
Sweet Peas	1.50	to 2.00	2.00	to 4.00	2.00	to 4.00	1.00	to 3.00
Gardenias	.....	to	50.00	to 75.00	20.00	to 25.00	.....	to
Adiantum	1.00	to 1.50	1.25	to 2.00	1.00	to 1.50	1.50	to 2.00
Smilax	20.00	to 25.00	25.00	to 30.00	15.00	to 20.00	.....	to 20.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00	to 50.00	50.00	to 75.00	35.00	to 50.00	30.00	to 50.00

meet with an excellent demand. Bulbous stock sells well and includes daffodils, paper white narcissus, freesias, yellow narcissus, Dutch hyacinths and a few tulips. Other offerings are snapdragon, callas, a few rubrum lilies, orchids, violets, calendula, forget-me-not and wallflower.

Stock still continues scarce in some items.

Carnations are good but none too plentiful. Lilies are among the short items. Some good callas are seen. Roses have been scarce. Violets are good and sell well. Freesias and paper whites are in light supply. Tulips, daffodils, Roman hyacinths, baby primroses, calendulas and snapdragons sell well. Smilax is off crop and asparagus is very scarce.

The market holds up well. **ST. LOUIS** Carnations and roses still holding up in prices. Violets and sweet peas are increasing in quantity but as yet in no great over supply. There is also a good demand for all greens and florists' supplies.

Market here remains on a pretty even keel — about the same as it has been for the past three of four weeks. Carnations were rather more plentiful on Monday and Tuesday but at the end of the week the market was back to its old neat and thrifty condition. Roses generally are scarce, some pretty nice stock in American Beauty coming in. Cattleyas are still very good — the darker forms of Trianae being the feature — and go well. The daffodil has made its appearance with the first cuts of the early French Trumpet Majors — very good flowers, both as to size and substance.

Baltimore, Md. — John G. Vincent, the youngest son of R. Vincent, Jr., has recently undergone a serious operation, but we are glad to say he is now improving rapidly.

NEW YORK.

Robert Whitaker has taken the position in charge of the flower stand of the new Hotel Commodore on East 42nd street.

The 12th annual ball of the Greek-American Florists' Association will be held at the Palm Garden on Feb. 27th. The usual good time is promised.

Jasper R. Lewis, for the past two and one-half years with Ralph M. Ward & Co., 25 Murray street, New York, announces the severance of his connection with that house this month. He has not yet made definite plans for the future.

The leading commercial orchid growers in the vicinity of New York had a meeting on Jan. 25th in the store of George C. Siebrecht, West 28th street, to consider the serious menace of the impending plant embargo and what could be done by the orchid growers to secure a reversal of the ruling.

John Scheepers has been appointed by the Horticultural Society of New York to represent that organization in the State Federation of Horticultural Societies and Floral Clubs at the meeting in Ithaca on Tuesday, Feb. 11th, at which the matter of the exclusion of plants by the Federal Horticultural Board is to be taken up.

The annual dinner of the New York and New Jersey Association of Plant Growers will take place at the McAlpin Hotel, on Tuesday, February 18th, at 7 p. m. The committee has arranged the details for an enjoyable evening for which this association's banquets have always been noted. Dancing will be provided for as usual. The committee consists of John H. Fiesser, Herman C. Steinhoff and William H. Siebrecht, Jr.

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MAURICE L. GLASS, Treasurer

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Part of Week ending Feb. 1 1919		First Part of Week beginning Feb. 3 1919	
American Beauty, Special	60.00	to 100.00	60.00	to 100.00
" " Fancy and Extra	25.00	to 50.00	25.00	to 60.00
" " No. 1 and culls	5.00	to 25.00	5.00	to 25.00
Russell	10.00	to 25.00	10.00	to 35.00
Hadley	10.00	to 50.00	10.00	to 30.00
Euler, Mock, Key	8.00	to 30.00	8.00	to 30.00
Arenberg, Hoosier Beauty	6.00	to 25.00	6.00	to 25.00
Ward, Hillingdon	8.00	to 20.00	8.00	to 20.00
Killarney, Taft	8.00	to 20.00	8.00	to 20.00
Ophelia, Sunburst	8.00	to 25.00	8.00	to 25.00
Carnations	5.00	to 10.00	5.00	to 10.00

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We have a numerous clientele of New York City buyers and the demand exceeds our supply. This is especially true of Roses. We have every facility and abundant means and best returns are assured for stock consigned to us.

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Metal Designs, Baskets, Wire Work & Novelties
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Headquarters for
CYCAS, BASKETS, WIRE DESIGNS
and WAX FLOWERS
Send for price list if you have not received one.

Wired Toothpicks

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W. J. COWEE, Berlin, N. Y.

10,000...\$3.25 50,000...\$9.75 Sample free.
For sale by dealers.

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Is fast getting to be the
BIGGEST DAY IN THE YEAR
 FOR THE FLORIST!

You can get the best in the market and thus encourage your customers to
Say It With Flowers if you send your orders to

THE CHICAGO FLOWER GROWERS' ASSOCIATION

182 North Wabash Avenue, CHICAGO

CHICAGO.

Jens Jensen, well known landscape architect addressed the Outdoor Art League, Feb. 6, on Memorial Planting of the Lincoln Highway.

Local growers of double violets are cutting some fine stock now and will be just in time for the big demand for Valentine's Day. The box of flowers has many admirers but the corsage still ranks very high as a gift on this day.

Allie Zech, of Zech & Mann, attended the directors' meeting at Detroit as president of the Chicago Florists' Club. Geo. Asmus, who is one of the directors and Fred Lautenschlager, representing the credit committee, also were in attendance and arrived home this week.

Some of the loop flower stores are using their windows to feature St. Valentine's Day and others will be completed in a few days. One of the most elaborate is that of Geo. Weinhoeber, who has a figure of a lady in full Colonial dress of brocade, full skirt with hoops, and tight bodice, pantalettes and slippers, and of special interest to flower lovers a large colonial bouquet is carried in her hand.

The Chicago Florists' Club has now orders for all that remain of the million and a half stamps and posters advertising St. Valentine's and Mothers' Day. Of these Fred Lautenschlager sold the enormous number of one million and it is his opinion that while the venture was a success both as an advertisement and financially, the work in the future should be taken over by the F. T. D. or the S. A. F.

Kroeschell Bros. report the largest number of inquiries for boilers in the past few weeks that have ever been received in the same length of time by this firm, which has been in business many years. Manager Lauten-

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NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Part of Week ending Feb. 1 1919		First Part of Week beginning Feb. 3 1919	
Cattleyas	25.00	to 60.00	25.00	to 60.00
Lilies, Longiflorum	20.00	to 25.00	20.00	to 25.00
Lilies, Speciosum	8.00	to 12.00	8.00	to 12.00
Lily of the Valley	4.00	to 12.00	4.00	to 12.00
Snapsdragon	8.00	to 20.00	8.00	to 20.00
Violets .....	.50	to .75	.50	to .75
Narcissus .....	.....	to .....	.....	to
Calendula	4.00	to 8.00	4.00	to 8.00
Sweet Peas	3.00	to 5.00	3.00	to 5.00
Gardenias	16.00	to 35.00	10.00	to 35.00
Adiantum .....	.50	to 1.00	.50	to 1.00
Smilax	12.00	to 20.00	12.00	to 20.00
Asparagus Plumosus, & Spreng (100 bunches)	15.00	to 25.00	15.00	to 25.00

schlager thinks the outlook very encouraging. While extremely large ranges may not be built at once, additions will be made and old boilers will be replaced with new as a means to greater efficiency.

Geo. Valke, of the Valke Greenhouses, Minot, N. D., is spending a few days in Chicago, after which he will again visit his brother, Clarence, who has been dangerously ill at Madison, Wis., where he is a student at the university there. While here he made his headquarters at Zech & Mann's, which firm has supplied him with flowers many years. He has also visited in Milwaukee and will return to Minot as soon as his brother is on the way to recovery.

Chicago, Ill.—On Saturday, January 25th, Geo. Asmus celebrated his 47th birthday anniversary.

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For Greenhouses

Drive easy and true, because
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side. Can't twist and break
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The Florist will be properous
and as a precautionary meas-
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Split carnations quickly, easily and
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Staple, 1000 for 35c.; 3000 for \$1.00 post-
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Daisies, Bellis, Monstrosa, pink or white,
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plants, \$2.50 per 1000. \$6.75 per 3000, cash.
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New Peony Dahlia—John Wanamaker,
Newest, Handsomest, Best. New color, new
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of best cut-flower varieties. Send list of
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6 by 8, 8 by 10, 10 by 12 or 10 by 14 at
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with cross-bar, blind tenons, white leaded
in joints, \$1.50 each. Orders for 25 or more,
\$1.45 each. Glass 6 by 8, 8 by 10, 10 by 12
or 10 by 14 at \$4.50 per box of 50 square
feet. Write for circular. **C. N. ROBINSON
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Standard Hot Bed Sash, 3 x 6, \$1.50 each.
Order for 10 to 24, \$1.45 each; 25 to 50,
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8 x 10 at \$4.50. 10 x 12, 10 x 14 at \$4.25.
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One trial order solicited.

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Live Sphagnum moss, orchid peat and
orchid baskets always on hand. **LAGER
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SWEET PEAS, New Zealand grown, the
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all the best colors. Pink and White,
Blanche Ferry type. Yarrava (true), bright
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Flowering and Foliage Vines, choice
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Must settle estate; many years success-
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to two railroads, within twenty-five
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E. M. RUMERY, Newtonville, Mass.

MISCELLANEOUS

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Floral and Nursery Concern

Must be first class established business.
State reasons for selling, extent of busi-
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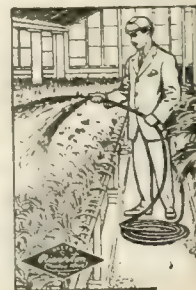
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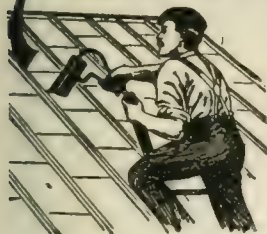


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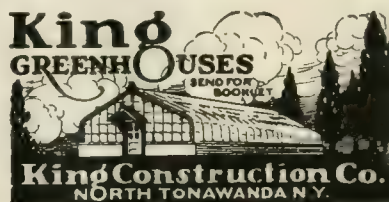
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LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....168	Chicago Flower	Graham & Son,	Low Co., Stuart.....156	Reed & Keller.....164	Stumpp, G. E. M.....160
Allen, J. K.....165	Growers Assn.....163	A.....161	Maine Bulb &	Reidel & Meyer.....164	Stumpp & Walter
American Bulb	Childs, John	Grakelow, Chas.	Flower Grow-	Reid, Edw.....162	Co.....146
Co.....146	Lewis.....146	H.....161	ers.....157	Reuter, L. J. Co.....148	
American Fores-	Clarke, D. Sons.....160	Gude Bros. Co.....160	McHutchinson Co.....148	Rice & Co.,	
try Co.....157	Coan, J. J.....165		Marshall, W. E.	Jerome B.....150	Thorburn, J. M.
Anderson, S. A.....161	Cooke, Geo. H.....160	Hall Asso.....167	& Co.....146	Robinson, Henry	& Co.....146
Aphine Mfg. Co.....167	Conard & Jones.....157	Heistad, H.....146	Maule, Wm. H.....159	M. Co.....164	Totty, Chas. H.....167
	Cottage Gardens	Hart, Geo. B.....162	McKenzie, John.....161	Robinson, H. M.	Tracy, B. Ham-
Barrows, H. H.....148	Nurseries.....157	Hess & Swoboda.....161	Michell, H. F. Co.....146	& Co.....162	mond.....147
Bayersdorfer, H.	Cowee, W. J.....164	Hews & Co., A.	Michigan Cut	Roehrs, J. Co.....148	
Co.....162	Craig Co., Robt.....147	H.....166	Flower Ex.....162	Roland, Thomas.....161	United Cut Flow-
Bay State Nur-	Danker.....160	Hill Co., E. G.....162	Millang, Chas.....165	Rosery, The.....160	er Co.....164
series.....148	Dards.....160	Hill, D. Nursery	Muller-Sealey Co.....147		
Bobbink & At-	Dreer, H. A.....167-168	Co.....148	Murray, Samuel.....160	Schwake, Chas.	Vincent, R., Jr.,
kina.....147	Dunlop, John H.....161			Co.....147	& Sons Co.....145
Boddington Co.,	Dysart, R.....164	Irwin, R. J.....146	National Nur-	Sekenger, Adam.....160	
Inc., A. T.....159	Edwards Folding	Johnston Bros.....160	serman.....157	Sheridan, W. F.....164	Wants, For Sale
Boligiano & Son.....146	Box Co.....162		Nicotine Mfg. Co.....167	Siebrecht, Geo. C.....164	etc.....166
Boston Floral	Esler, J. G.....167	Kasting, W. F.	Niessen, Leo C.....162	Siggers & Sig-	Warburton.....161
Supply Co.....160-164		Co.....162	Palmer, W. J. &	gers.....167	Weber, F. C.....161
Breck, J. & Sons.....146	Farquhar, R. &	Kelway & Son.....146	Son.....161	Skidelsky, S. S.	Weiss, Herman.....164
Breck-Robinson	J. Co.....146	Kervan Co.....164	Park Floral Co.....161	& Co.....146	Wilson.....160
Co.....147	Fengar, E. W.....147	King Construc-	Parshelsky Bros.....168	Smith, Elmer D.	Wood Bros.....161
Breitmeyers, J.	Ford, M. C.....164	tion Co.....168	Penn the Florist.....160	& Co.....148	Woodruff, S. D.
Sons.....160	Ford, W. P.....164	Knoble Bros.....161	Pennock, S. S.	Smith, P. J.....164	& Sons.....146
Budlong, J. A.....162	Fottler, Fiske	Kroeschell Bros.....168	Co.....145	Smith, W. & T.	
Bunyard, A. T.....160	Rawson Co.....159	Kuebler, W. H.....164	Pierce Co., F. O.....167	Nursery Co.....148	Young, A. L.....164
Burnett Bros.....146	Froment, H. E.....164	Kottmiller.....160	Pierson, A. N.....145	Smith, The Flor-	Young, John.....164
Burpee, W. A. &		Lager & Hurrell.....156	Pierson, F. R.....145	ist.....161	Young & Nugent.....160
Co.....146-158	Galvin, Thos. F.....161	Lemon Oil Co.....167	Pulverized Ma-	Smith & Feters	
Carter's Tested	Gasser Co., J. M.....161	Liggit, C. U.....147	nure Co.....167	Co.....161	
Seeds, Inc.....159			Randalls Flower	Smyth, Wm. J.....161	
			Shop.....161	Stearns Lumber	
				Co., A. T.....167	Zech & Mann.....162

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In this country there are a large number of men connected with the horticultural industry who are very capable of giving impartial advice to the Federal authorities. And it would seem that before any drastic action is taken a committee of the most experienced and competent men should be given an opportunity to formulate and present to the Federal Horticultural Board for examination a set of rules dealing fully with foreign plant importations.

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Arthur. E. Thatcher

Mt. Desert, Maine.

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CONTENTS

Page

POPULAR WINTER FLOWERING PLANTS—Primula obconica—Illustration	149
QUARANTINE 37—Arthur E. Thatcher.....	149
SOCIETY OF AMERICAN FLORISTS—National Publicity Campaign	151
CLUBS AND SOCIETIES—New York Florists' Club—Gardeners' and Florists Club of Boston—American Dahlia Society—Washington Florists' Club—St. Louis Victory Banquet—Southampton Horticultural Society—Rhode Island Nurserymen Organize—Chicago Florists' Club—Chrysanthemum Society of America—Agricultural Meeting at Boston.....	152-154
THE PLANT EMBARGO MENACE.....	154
HOME PRODUCTION POSSIBLE—T. D. Hatfield.....	155
OBITUARY—Mike Chronis—Mrs. Elizabeth Fenrich—Milton Alexander—Joseph L. Ball—Wm. Meggatt—John P. Shaffer.....	155
LIFE AND VEGETATION OF THE HAWAIIAN ISLANDS—J. Otto Thillow.....	156
SEED TRADE—New Building of the G. H. Hunkel Co., Milwaukee, Wis., Illustrated—Notes.....	158-159
OF INTEREST TO RETAIL FLORISTS: Advertise, Henry Penn—Practice What You Preach—New Flower Stores	160-161
FLOWER MARKET REPORTS: Boston, Chicago, Cincinnati, Cleveland, New York, Rochester, St. Louis	163
LOCAL AND GENERAL NEWS: Chicago	157
Boston, Rochester, New-York, Philadelphia, Cincinnati, Washington	165-166
MISCELLANEOUS: In Memoriam, poetry—David S. Miller.....	155
The Locusts are Coming.....	156
Visitors' Register	156
Catalogues Received	157
News Notes	154-156-166
New Corporations	163
Business Troubles	166
Greenhouses Building or Contemplated.....	167
Publications Received	167

American grown bulbs

We learn from a Bulletin just issued by the U. S. Department of Agriculture that

"To determine the practicability of successfully growing flowering bulbs and to do the work at a cost which will enable the industry to thrive in this country in competition with imported stock of similar character, experiments are being undertaken by the United States Department of Agriculture at a bulb farm which it maintains at Bellingham, Wash."

This is not much in the nature of news, for this Bellingham experiment is nothing recent. The bit of real interesting "news" in the document is found further

along in which, after being assured that the stock produced at the Bellingham farms has proved superior to the imported, we are informed that

"In the fall of 1917 a carload of bulbs grown at the Bellingham gardens was shipped East and constituted the supply of this class of bulbs used in the congressional seed distribution. This car of bulbs was the first full carload of domestic grown bulbs ever shipped across the continent. Last fall another full carload of similar stock was sent East for the same purpose."

At the rate we are progressing it would be interesting to learn how long it will be before there will be sufficient surplus available for test by competent parties who can judge of the forcing properties of the Bellingham bulbs. It is gratifying to learn that the product has proved superior but, in respect and where. Further information will be welcome.

Trade improvement

Within the past two or three weeks there has been a decided improvement in horticultural trade generally. Seedsmen have been receiving better response than for the past two years, especially from the larger private estates. The war or Victory garden trade comes later, and it is generally expected from present inquiries, that this trade will at least be equal to that of last year. Nurserymen are receiving even now, substantial orders for delivery when spring opens and early correspondence indicates that planting operations which have been neglected or held in abeyance, will be undertaken this season. Bedding plants will be none too plentiful, especially geraniums, on account of the closing of numerous establishments where these have been largely grown as a result of the shortage and high cost of fuel. Prices of such plants will rule higher than last year, both on account of scarcity and of increased cost of production. This increase in prices will not deter purchasers, who have come to realize that horticultural products in common with all others must inevitably cost more.

Protests

Protests, from individuals, from firms, and from numerous organizations, have been forwarded to the Federal Horticultural Board against Quarantine No. 37. The almost complete shutting out of all plants hitherto imported from foreign countries has aroused a storm of indignation from both amateur and commercial plant growers and HORTICULTURE has consistently protested against what it has considered to be an unwise and unwarranted proceeding on the part of this branch of governmental authority. It now appears that the Board itself is less positive of its action than it was several weeks ago. The wrong done to the horticultural interests of the country is being voiced in unmistakable terms, following which the intimation comes from Washington that certain modifications will be made. Further modifications should be in order, and will be demanded. In a letter dated February 10th, Dr. C. L. Marlatt charges the Dreer Nursery Company with instigating propaganda against the quarantine. HORTICULTURE from its own knowledge can assure Dr. Marlatt that the Dreer Company is but one of hundreds of horticulturists both commercial and private who feel and speak as the Dreer Company does.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

NATIONAL PUBLICITY CAMPAIGN.

The two Publicity Committees met in joint session at the Hollenden Hotel, Cleveland, Ohio, on Thursday, January 30th, with President J. F. Ammann presiding. Two members only were absent, for reasons meeting the approval of the assembly. A full report of the proceedings must, necessarily, be deferred until receipt of the transcript of the notes of the official stenographer, but the following may be advanced.

The minutes of the conferences of the Chairman of the two Committees, the President of the Society, and the Secretary, held in Buffalo last June, and in Cleveland last October, were submitted and approved. Secretary Young presented a financial report covering in detail the work of the Promotion Bureau and the status of the Publicity Fund, from its inception to the close of last year, which received the careful consideration of the committees, and was, on motion of Chairman Asmus, of the Publicity Finance Committee, referred to the Society's Executive Board, with the request that that body appoint a committee to audit it.

Major P. F. O'Keefe, of the P. F. O'Keefe Advertising Agency, Boston, submitted a report of the work accomplished through advertising placed for the months of January and February of this year, covering thirty-three magazines, with a circulation of, approximately, 21,000,000. The report was wholly satisfactory to the Committees. Major O'Keefe had prepared, and submitted, a very complete plan of campaign for 1919, with sketches and other material, which was warmly commended by the meeting, and adopted. The Committees also entered into a contract with the O'Keefe Agency to take charge of the advertising during the 1919 campaign.

Upon the recommendation of the Publicity Committee, concurred in by the Publicity Finance Committee, the O'Keefe Advertising Agency was authorized to proceed with the spring advertising, according to the following schedule, at a cost, approximately, of \$20,000, which is in addition to \$5,000 expended during January and February.

Schedule for Spring Advertising.

Literary Digest, full page, March 22; Outlook, 200 lines, March 29; Red Book, 200 lines, April; Cosmopolitan, 200 lines, May; Saturday Evening Post, full page, April 19; Sunset, 200 lines, May; Literary Digest, 200 lines, April 26; Quality Group, Atlantic Monthly, Century, Harper's, Review of Reviews, Scribner's, World's Work, full page in colors, May; Saturday Evening Post, ½ page, May 3; Metropolitan, full page in colors, June; American Magazine, 200 lines, June.

It should be remembered that the June magazines are issued about May 15th, and also that we are to use color pages in the Quality Group, consisting of six magazines, and a full page in colors in the Metropolitan Magazine.

Reports forthcoming, from all sections of the country were so favorable, and endorsed so highly the work and management of the campaign that the Committees decided to set the mark for the Fund to be raised and expended this year at \$100,000. The Committees also authorized the Secretary to continue his trip through the country as soon as the duties of his office would permit.

Next week details may be given covering the enthusiastic support given to the Publicity Campaign by the Society's Executive Board, at its recent meeting in Detroit. Readers will be interested to know what prompted Hon. Philip Breitmeyer, of Detroit, to subscribe \$50 per month, or \$600, to the fund for 1919; how other members of the Board who were present increased their subscriptions to \$500 per year; and how each member present doubled the subscription he had made for 1918. The Board was most enthusiastic in its endorsement of the action of the Publicity Committees in deciding that the fund to be aimed for in 1919 should be \$100,000, all to be expended during the year for publicity.

Support From Abroad.

That the Publicity Campaign is exciting interest abroad is evidenced in cheque for £2 (\$10) which C. Engelmann, the well-known carnation grower of Suffron Walden, England, sent to Albert Pochelon, Secretary of the F. T. D., as a contribution to the Publicity Fund, with his best wishes. As Chairman Henry Penn, to whom Mr. Pochelon remitted the cheque, says, "This shows the relative interest of our English brethren, of which our

home folks should 'sit up and take notice.' If florists in England send money towards a campaign for publicity for flowers in this country, what should we expect from our own?" Mr. Pochelon remarks, "This certainly shows the spirit of joining hands across the sea. It should wake up some of the boys on this side of the ocean who have not yet seen fit to contribute towards this most beneficial work, carried on for everyone engaged in the growing or distribution of the products of our industry."

Mr. Non-subscriber, the campaign for 1919 is well planned and is under way. Are you going to support it, as, surely, your conscience dictates that you should? If you are in doubt on any point, will you not communicate with this office and have your doubt removed?

The following subscriptions have been received and are in addition to those previously announced:

Annually for Four Years—Wm. A. Dawson, Willimantic, Conn., \$10; M. W. Roren, Parkerford, Pa., \$5; Sofus Bertleson, Babylon, L. I., \$5; L. B. Coddington, Murray Hill, N. J., \$50; Mrs. W. D. Brown, Bessemer, Ala., \$5; Sanders Floral Co., Salt Lake City, Utah, \$3; N. B. & C. E. Stover, Terre Haute, Ind., \$10; McRae & Jenkinson Co., New Kensington, Pa., \$20; Chas. A. Main, Maplewood, Mo., \$5; Fisher & McGrath, New Castle, Pa., \$5; W. Guy Payne, Pottsville, Pa., \$10; Van Scoter & Son, Bath, N. Y., \$5; John H. Sykes, Allentown, Pa., \$5; Gerlach The Florist, Piqua, O., \$5; Robert G. Freytag, Montclair, N. J., \$5; Wm. J. Newton, Norfolk, Va., \$25; J. Grulish & Sons, Hoboken, N. J., \$5; Christina Metcalf, Brooklyn, N. Y., \$5; Ernest H. Frenking, Treton, N. J., \$10; John R. Mitchell, Madison, N. J., \$5; Rupert Klenle, Philadelphia, Pa., \$25; J. G. Papadem & Co., New York City, \$25; Stenson & McGrall, Uniontown, Pa., \$10; Bristol Floral Co. (H. G. Bramm), Bristol, Tenn., \$15; Forest Hill Greenhouses, Chattanooga, Tenn., \$10; Geny Bros., Nashville, Tenn., \$25; G. H. Trichler, Nashville, Tenn., \$10; Truett Floral & Nursery Co., Franklin, Tenn., \$5; A. J. McNutt, Knoxville, Tenn., \$10; Anderson Floral Co., Lebanon, Tenn., \$25; Chas. Eble, New Orleans, La., \$5; Chas. L. Schmidt, Harrisburg, Pa., \$20; L. A. Hutchinson, Caribou, Me., \$5; J. C. Rutenschroer, Cincinnati, O., \$2.

For Three Years—Joy Floral Co., Nashville, Tenn., \$50; Uriah J. Virgin, New Orleans, La., \$25.

For One Year—J. Aldous & Son, Iowa City, Ia., \$10; Sigmund Kahn, Bulls Head, S. I., \$10; Saginaw Bay City Floral Society, Bay City, Mich., \$25; The Rosery, Winnipeg, Man., Canada, \$10; M. Rice Co., Philadelphia, Pa., \$100; George Smith & Sons, East Orange, N. J., \$10; Valley Floral Co., La Junta, Colo., \$5; H. G. Berning, St. Louis, Mo., \$100; Albany Florists' Club, Albany, N. Y., \$25; Henkes Bros., Watervliet, N. Y., \$10; E. P. Rodman, Washington, D. C., \$25; A. T. Elchel, Chicago, Ill., \$5.

Total, \$800.00. Previously reported, \$28,230.50. Grand total, \$29,030.50.

JOHN YOUNG, Sec.

1170 Broadway, New York, N. Y.

CLUBS AND SOCIETIES

NEW YORK FLORISTS' CLUB.

The New York Florists' Club had a rousing good meeting on Monday night, February 20th, with an attendance of nearly two hundred, there being present three or four visitors, including R. Vincent, Jr., of White Marsh, Md., Mr. Libby, of Strouts, Biddeford, Maine, and George L. Stillman, Westerly, R. I.

The most important matter before the club was the report of Sec. Young and F. R. Pierson, of Tarrytown, who had just returned from Washington to present a protest on behalf of the club before the Federal Horticultural Board against the proposed establishment of a plant embargo against all foreign plant importations. They were unable to interview the Secretary of Agriculture, but Dr. Marlatt and Dr. Kellerman were present at the hearing and there was also present J. D. Eisele, of Dreer's, and C. B. Knickman, of James McHutchison & Co. The conference was marked by good feeling, and while no evidence was given that the Board would retract in any way from its stand, yet there seemed a disposition to be cordial and accommodating with the committee. They seemed impressed with the committee's presentation of the case, and Mr. Young said that several Congressmen were disposed to take an interest in the situation, among them Mr. Mann, of Chicago, and suggested that pressure be brought to bear from all sides on the Department through Congressmen or other means. Mr. Young also referred to the fact that the Garden Clubs had in many cases sent protests, and as they are composed of the wives and relatives of prominent men in public affairs, their influence should not be underestimated.

Walter F. Sheridan, as chairman of the committee for the purpose, presented a resolution of sympathy with J. K. Allen in the recent death of his son. Charles Schenck also presented a resolution of condolence for the family of the late Mrs. Patrick McGovern. Sec. Young announced the death of Mrs. Elizabeth Fenrich, mother of Jos. S. Fenrich, and Messrs. Duckham, Totty and Young were constituted a committee to prepare appropriate resolutions of sympathy.

Pres. Kessler, C. H. Totty, J. A. Manda and Sec. Young spoke in high terms of the way in which they were received by Philip Breitmeyer and the members of the Detroit Florists' Club

on their recent S. A. F. executive meeting in Detroit, and the secretary was instructed to extend thanks on behalf of the club for their courtesy.

It was pleasant news to hear from Mr. Kessler that it is proposed to renew the bowling sports at the Detroit convention to be held next summer.

The Publicity Campaign was the subject of C. H. Totty's remarks and he set \$100,000 as the aim for this year's subscription for that purpose. Evidence was given in his remarks and those of Sec. Young that the amount expended last year was well invested and had done an adequate amount of good for the trade.

It was proposed by Mr. Totty to inaugurate the plan adopted by the Milwaukee florists, a sort of percentage system to which all will be contributors.

A resolution was passed in approval that the publicity committee of the club be added to by the appointment of two retailers, two wholesalers and two growers and that it reorganize for the practical work of the committee. Wallace R. Pierson gave a good talk also on the publicity finance question and spoke very enthusiastically of the campaign and what it sought to do. He was very hopeful and earnest and saw immense possibilities in wise prosecution of this public work.

It was announced by the dinner committee that the annual dinner of the club would be held at Hotel Biltmore on Saturday evening, March 15th.

The following were nominated for election at the next meeting: John Joyce, John Noe and Joseph Schneider, all of Congers, N. Y.; Wm. W. Mathews, Great Neck, N. Y.; J. P. Klausner, 275 Columbus Ave., New York; E. A. Hartland, 31 Barclay St., New York; A. M. Danernheim, 5th Ave. and 25th St., Brooklyn, N. Y.; Wm. T. Ilner, 55 West 28th St., New York; Chas. Futterman, 102 West 28th St., New York; George Schafer, Maspeth, N. Y.; John M. Neimeyer, White-stone, N. Y. and E. Fardel, Great Neck, N. Y.

The Newport Horticultural Society has voted to hold a June flower show in the Convention Hall at the Newport Beach on June 25 and 26. There will be exhibits of vegetables, fruits and flowers with a specialty of roses. Newport also expects to have a dog show sometime in the course of the summer, none having been given since the war began.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The regular monthly meeting of the club will be held at Horticultural Hall, Boston, on Tuesday evening, February 18, 1919, at 7.30 o'clock.

It will be Carnation Night and several prominent growers of this ever-popular flower have promised to give short and practical talks.

The club will hold a flower show in Horticultural Hall, on February 18, in advance of the club meeting. Members are urged to exhibit all they possibly can and help to make up a creditable exhibition. Notice is short from various causes beyond control, but if all will help, we will have an excellent exhibition. Money premiums are not large, but we hope competitors will be numerous and that we can give Boston a good midwinter show. Please notify the Secretary promptly what classes you can compete in and what non-competitive plants and flowers you can show.

The tickets are selling rapidly for the Victory Banquet to be held in Horticultural Hall on Wednesday evening, February 26. No tickets will be sold after February 24 and early application is necessary for all who have not yet purchased. The price is \$2.50 each.

W. N. CRAIG, Secretary.

AMERICAN DAHLIA SOCIETY.

There was a meeting of the Executive Committee of the American Dahlia Society, at the Grand Hotel, New York, on Monday afternoon, February 10, at which were present President Richard Vincent, Jr., James Duthie, P. W. Popp, Geo. L. Stillman, I. S. Hendrickson, A. H. Langjahr, and the Secretary, John H. Pepper.

The affairs of the society were discussed at length, and its work was found to be in progressive order. It was decided that the society's next bulletin be published about the first week in March, and thereafter be published bi-monthly.

Rules governing the society's trial gardens at Storrs, Conn., in connection with the Connecticut Agricultural College, were considered and adopted. A committee was appointed to prepare a memorial resolution on the death of J. H. Slocombe, New Haven, Conn., a prominent member.

Preparations for the holding of the Annual Exhibition were discussed and a committee appointed to make ar-

rangements as to housing accommodation.

The committee adjourned to meet again in New York about the middle of March.

JOHN H. PEPPER, Sec.

WASHINGTON FLORISTS' CLUB.

Nominations of officers was the main business of the February meeting of the Florists' Club of Washington. The names of Z. D. Blackistone and George E. Anderson, the present president and vice-president of the club, were presented for reelection. New candidates for the offices are Adolph Gude, who was nominated for president, and Harry B. Lewis, vice-president. Other nominations were E. P. Rodman and William H. Ernest for secretary; William F. Gude, treasurer, and George Field and William H. Ernest for directors.

A discussion of business conditions among those present brought forth the fact that the florists of this city are being confronted by business conditions never before experienced—but inasmuch as they are conditions of big prosperous business there is no complaint. The demand appears to be good for everything that is brought into the city, and that there is no indications of a falling off in the near future.

The possibilities of holding a banquet next month, on the occasion of the annual meeting, was brought up and the matter taken under advisement by the president.

The meeting also took up the regulations of the Federal Horticultural Board prohibiting the importation of plant stocks, and passed a resolution of opposition.

ST. LOUIS VICTORY BANQUET.

The Victory Banquet, given by the florists at Planters' Hotel, Wednesday evening, Feb. 5th, was a very enjoyable affair, over 200 persons were present. Music and dancing and some fine speeches were made. August Hummert, President of the St. Louis Florist Club, opened up with a welcome to all and Fred Ammann, president of the S. A. F. urged further co-operation with grower, wholesaler and retailer. Bill Beilheimer gave an interesting talk on reconstruction and J. Hubbard spoke on the advisability of advertising and urged the retailers to get into closer communication with their customers by sending them reminders of their various anniversaries. Among the other speakers were R. H. Emerson of Columbia and Jules Bourdet. J. J. Beneke was toastmaster for the evening.

SOUTHAMPTON (N. Y.) HORTICULTURAL SOCIETY.

The regular monthly meeting of the Southampton Horticultural Society was held Thursday evening, Feb. 6, in Odd Fellows' Hall, President D. F. Wells, presiding. One new member was elected. Exhibits for the month were 12 varieties of fresh vegetables. There were two exhibitors, James Dowlen, 3 points, and Stanley Chandler 2 points. Mr. Dowlen also received honorable mention for a fine exhibit of cut roses, and Vernon Pierce for one dozen varieties of canned vegetables. Some time was spent in discussion after which Stanley Chandler read a very interesting essay on salvias which brought forth an animated discussion on the salient points of the different varieties. The show committee for the coming exhibition and flower show were appointed as follows: Vice-President Stanley Chandler, chairman; H. H. Wells, secretary; William McLeod, financial secretary; Frederick Marshall, treasurer; James Dickson, George Campbell, U. G. Agor, Frank H. Smith, George Anderson, Chas. Frankenbach, and Robert Melrose.

RHODE ISLAND NURSERYMEN ORGANIZE.

The Nurserymen of Rhode Island met in Andrew's Hall on Thursday, February the sixth, and formed the Rhode Island Nurserymen's Association. The following officers were elected:

President, C. H. Greaton, Providence; vice-president, C. W. Morey, Woonsocket; secretary, D. A. Clarke, Fiskeville; treasurer, V. A. Vanicek, Newport.

The executive committee consists of the officers and the following members: C. M. Holland, Woonsocket; Walter Barth and D. A. Bohuslav, Newport.

The chief topic for discussion at the meeting was the "Quarantine Order Number 37," promulgated by the Secretary of Agriculture. Resolutions were passed condemning the order as framed and the secretary was ordered to send copies of the resolution to the Secretary of Agriculture and to the senators and representatives in Congress from Rhode Island.

DANIEL A. CLARKE, Sec.

At a meeting on January 6th of the Montreal Gardeners' & Florists' Club, a paper was read on the Gardener's and Florists' Club, a paper was read on The Gardener's Recompense. The new president, Mr. Robbins, occupied the chair.

CHICAGO FLORISTS' CLUB.

The Chicago Florists' Club held its regular meeting Feb. 6 at the Hotel Randolph with President A. J. Zech in the chair. The installation of Vice-President Walter Amling, who was unable to be present at the previous meeting, was the first business transacted.

The following names were presented for membership: D. J. O'Keefe, 1213 N. Madison St.; Ove Gnatt, La Porte, Ind.; John G. Poehlmann, 72 E. Randolph St.; Nick Lemperis, 72 E. Randolph St.; Frank McCabe, 180 N. Wabash Ave.; Wm. Wichtendahl, Maywood, Ill.; W. G. Earle, Park Ridge, Ill.; Fred E. Matti, 1677 Olive Ave., Chicago; the rules were suspended and all were elected to membership.

President Zech appointed the following chairmen of standing committees: Good of the order, T. E. Waters; publicity, A. Lange; Garden Club, J. C. Vaughan; advertising, Fred Lautenschlager; coal, C. L. Washburn; transportation, Mr. Barker. Mr. Waters requested that all members be ready to act on his committee at any time. Geo. Asmus made some very pertinent remarks on what advertising should be done in the near future. Fred Lautenschlager spoke for the work of the advertising committee that handled the posters and moved that \$500 be given toward the national advertising fund which was carried. It was also voted that \$200 be given to the wholesalers and retailers' association for local advertising, the club's advertising committee to work with them.

George Asmus moved that the American Carnation Society be invited to meet in Chicago in January, 1920, and that a committee be appointed to make the arrangements, and Fred Lautenschlager moved that the Illinois State Florists' Association be invited to meet in Chicago at the same time. The following committee of arrangements was appointed: C. W. Johnson, Geo. Asmus and Fred Lautenschlager.

Mr. Mazey of Minneapolis addressed the club. A committee was appointed by Pres. Zech to draw up resolutions on the death of the four members who have passed away since Jan. 1st, Wm. H. Amling, Nick Karthause, Thos. McAllister and Conrad Frauenfelder.

This was Novelty Night and the following were shown and passed upon by the judges:

Laddie by Jos. H. Hill, Richmond, Ind., 89; Ruth Baur by Baur & Steinkamp, Indianapolis, 89; Seedling No. 9 kamp, Indianapolis, 89; Seedling No. 9, 79 and Seedling No. 27, 82 by E. Blaumeier. Stiff Stem Sport of Good Cheer, Honorable Mention.

A vase of Columbia rose by A. F. Amling Co., calendulas by Geo. Ball, Sir Watkin narcissus and Proserpine tulips, all of home grown bulbs by Peter Pearson, 5784 Gunnison St., Chicago, each received honorable mention. Poehlmann Bros. had a fine display of Valentine Novelties which were also given honorable mention.

T. E. Waters of Poehlmann Bros., thought out a new idea from a memorial standpoint. The club having lost four members by death since Jan. 1st, he arranged a table with four vacant chairs and a wreath of gold magnolia leaves and gold ribbon at each place.

It was warmly commended and Mr. Waters received much praise for his idea which does away with the purple and black of other days. Another of Mr. Waters' designs shown at the meeting was a large funeral piece, the flower part of which was a loosely constructed wreath of green, above which rose a full round sheaf of wheat out of the top of which projected a large bunch of lilies. The effect was excellent and meets the demand for something new in funeral designs.

CHRYSANTHEMUM SOCIETY OF AMERICA

Registration of New Chrysanthemums.

The L. M. Smith Quality Flower Company, Laurel, Delaware submit for registration: Chrysanthemum "January Gold," golden yellow sport of the variety Mistletoe—a good clear yellow, deeper in color than Major Bonnaffon, incurved full to the center. Begins blooming December 20th and continues to March 1st, of great substance, keeping in good condition for 3 to 4 weeks.

Chrysanthemum "Dr. Hitch," sport of the variety of Mistletoe, color between white and lavender pink shading to yellow in the center. Blooms at the same time as January Gold and of the same good keeping qualities.

CHAS. W. JOHNSON, Sec.

AGRICULTURAL MEETING AT BOSTON.

A fine display of fruits, vegetables, and other farm products, together with manufacturers' and trade exhibits, fills Horticultural hall this week for the public to see free of charge. In addition there were competitive corn and vegetable shows.

Included in the list of speakers are men of prominence from all over the United States, among whom are J. C. Duncan, Lewiston, N. Y.; C. R. George, Lafayette, Indiana; Robert Pyle, Westgrove, Pa.; T. J. Headlee, N. J.; Mrs. Wm. H. Hubert, Washington, D. C.; S. P. Hollister, Storrs, Conn.; J. L. Hills, and E. S. Brigham of Vermont; Dr. Wm. G. Bissell of Buffalo, N. Y., and many other prominent speakers.

A resolution was introduced into the legislature of Rhode Island, a part of which is an appropriation of \$1,000 for the Rhode Island Horticultural Society, to be used as premiums at the various flower shows. Other societies who will benefit by appropriations in this resolution are Woonsocket Horticultural Society, \$800, Newport Horticultural Society, \$1,000, and Rhode Island Fruit Growers' Association, \$600. There is also pending before the House a resolution appropriating \$15,000 for the suppression and extermination of the gypsy and brown-tail moths.

PLANT EMBARGO MENACE

For the information of our readers we print the following letter from Chairman C. L. Marlatt of the Federal Horticultural Board to Congressman Frederick W. Dallinger of Massachusetts in reply to a communication sent him by J. C. Scorgie, superintendent of Mount Auburn Cemetery, Cambridge, Mass., relative to the plant embargo imposed under Quarantine No. 37. The letter, which is the latest word of the Federal Horticultural Board, is as follows:—

UNITED STATES DEPARTMENT OF AGRICULTURE

Federal Horticultural Board,
Washington, D. C.

February 4, 1919.

Dear Mr. Dallinger:—

I have your letter of the 28th ultimo enclosing a communication from Mr. J. C. Scorgie, Superintendent Mount Auburn Cemetery, Cambridge, Massachusetts, together with a marked copy of HORTICULTURE, containing an article entitled "The Plant Embargo Menace." The article and letter have reference to Quarantine No. 37, a copy of which is enclosed for your information.

The article referred to, signed by John Scheepers, is apparently intended to throw a scare into the nursery trade, which is not at all justified by the regulations. The second paragraph of the article leaves the impression that the importer of bulbs must specify a particular purpose for which those bulbs are to be used, and that they must not be used for any other purpose. Regulation 3, however, provides that "the following nursery stock and other plants and seeds . . . when free from sand, soil, or earth, may be imported . . . under permit upon compliance with these regulations, but where a particular purpose is specified, for that purpose and no other." The first item under this general statement includes the bulbs referred to. It will be noted that no purpose is specified in this item. Therefore, the bulbs imported under Item 1 of Regulation 3 may be used for any purpose whatever. Furthermore, the Department has under consideration an amendment to the regulations which will permit the importation of the bulbs mentioned when packed in sand, soil or earth which has been previously sterilized in accordance with a method prescribed by the Federal Horticultural Board.

The statement in paragraph No. 2 of Mr. Scheeper's article is equally misleading. He says with regard to bulbs, "When packed dry . . . they can only be unpacked and entered at New York, Boston, Seattle and San Francisco, which means no through in bond shipments to interior cities, such as Chicago, Pittsburgh, Cleveland, etc." For the basis of this statement he no doubt relies on the second paragraph of Regulation 6, which provides that "permits shall be valid until revoked unless otherwise specified therein, and will be issued for the ports of Boston, New York, Newark,

San Francisco, and Seattle, and such other ports as may from time to time be approved by the Federal Horticultural Board. It is the purpose of the Board to permit the entry of bulbs and other nursery stock, plants, and seeds at any customs port in the United States, although under Regulation 6, the Board has authority to restrict the entry to the ports specifically named.

Paragraph 3 of Mr. Scheeper's article is a criticism which would apply with equal force to the nursery stock regulations as they now exist and have existed for two or three years past. As a matter of fact, the marking conditions are not changed at all by Quarantine No. 37.

There is no foundation for Mr. Scheeper's statement in Paragraph 4 that the port of arrival must likewise be port of entry and payment of duty, nor is his further statement in that paragraph that "each and every State inspector of nurseries in his state through which any package, or packages, are destined, must be advised of the shipment."

His further statement in the same paragraph to the effect that "should the inspector at original port of arrival find it necessary to fumigate the case, it would practically mean the destruction of the goods or making them unfit for the grower's use," is equally without foundation. The Board has not now and never had any intention of requiring any kind of fumigation that would be injurious to the plants involved.

In order to answer just such misleading articles as the one written by Mr. Scheeper I have prepared a general statement on the subject of Quarantine No. 37, discussing briefly (1) the steps leading up to the quarantine, (2) objections raised in recent letters of protest, and (3) conditions necessitating the quarantine.

Yours very truly,

C. L. MARLATT,

Chairman of Board.

Mr. Scheeper's article referred to was published in our issue of January 18th.

NEWS NOTES.

Erie, Pa.—The department of the Baur Floral Co., interested in the manufacture of carnation menders, etc., has been sold to B. E. & J. T. Cokely, Scranton, Pa.

Brunswick, Ga.—Taite Bros. Co. are preparing to go extensively into the bulb growing industry here. Narcissi, amaryllises and gladioli will be among their principal specialties at first.

Indianapolis, Ind.—A new wholesale establishment carrying cut flowers and florists' supplies has been opened under the name of Florist Supply House, at 105 East Ohio street. The proprietors are S. T. Hitz and Fred Kiel.

HOME PRODUCTION POSSIBLE.

Mr. Editor,

Dear Sir—I have just finished reading your article in Feb. 1st HORTICULTURE, under the heading "What quarantine No. 37 means to nurserymen."

The answer is plain. If they grow what they formerly imported, they will have to raise it. Why shouldn't they? Even they will admit they should. The question is, when to begin. If they ever do, they must start sometime. Why not now?

The war, evidently, has taught them little. It did not even force them to help themselves, as it has in so many other industries. They have simply "hung on," waiting to resume the importation of stock from abroad, as soon as the war was over.

The shortage of dyes during the war forced American enterprise, helped by science, into the manufacture of dyes. The thing would never have been done otherwise. The Germans said, what growers of nursery stock on the other side say, "It can't be done." It can be done. But for the war, we should still be importing German dyes, and probably never should have manufactured them ourselves.

We are told by resident and imported propagandists, "We can't." They tell us we can't raise bay trees; that is the "big stick." It will take too long. It will not take us any longer than the Belgians and Hollanders, maybe not so long. They are in the business, and can produce many things more cheaply than we, but they had to begin.

The opposition exaggerate when they say, we must call E. H. Wilson back, as we shall be shut out of China and Japan. Wilson's things, as they well know, come mostly from seeds, and these will not be shut out; or any new or desirable thing from any part of the world, to be used for propagation.

Once on a time, we imported all our citrus fruits,—what foreign grapes we used and figs and prunes; now we raise our own. We have developed distinctly American types of apples and peaches. In this wide country, there is nothing done in Europe we can't do here, and some things they cannot do, or only to a limited extent in comparison. No one will deny that. We have only to begin. That it is cheaper to buy abroad than raise our material here is no excuse. To continue to do so, means stagnation, and building, and maintaining foreign industries with American money.

If it costs more in labor, the American people will pay the difference. In the very next article in the issue of

Feb. 1st you say "florists have been obliged to ask more for their products but this has not been seriously resented by the public," and more follows in a like vein. Whether they have resented or not, they always have had to pay what it costs to raise, or manufacture, an article, sufficient, so that those employed could have a living wage. It is patriotic. Business and patriotism should not be separated.

In the seed business, we are rapidly becoming independent of foreign countries, and to this industry the war has given a big impetus. We are ahead in many lines of floriculture, and much of this advance has been made within the life time of many of us. The editor can remember when Joe Tailby and Zirngiebel imported their carnations from Europe. "Grace Wilder" carnation was probably the first American variety to gain public favor, and long after it had "passed" to give way to better American varieties Tailby imported English varieties, as he said, to improve the blood. I only mention this to show how strong the tendency is to reaction. Progress should be the order of the day.

Zirngiebel imported his pansies from France at first, but later raised his own; and while we may still find French names in our seed lists, there is no doubt the bulk of our pansy seed is raised here.

We still import roses, but we also raise them, and export them as well, so that the business is, at least, reciprocal. These do not complete the list by any means. All we have to do is to begin, and now is the time.

T. D. HATFIELD.

IN MEMORIAM.

Mrs. Alexander Mackenzie Who Died
December 19, 1918

Thou art gone, fond wife and mother,
How sad, and cheerless life seems now;
The sunshine, of our homes departed,
Our hearts, with grief and sorrow bow.
Life is but the spirit's keeper,
At nature's call, it must succumb;
Death transplants the human flower,
To bloom eternal in God's home.

The world has fought its last great battle,
And right has won, as God did plan;
Millions gave their lives for freedom,
That the world might be safe for man.
And thou did live to see the victory,
Thine own did help to win the day;
Mingling now, with heroes plenty,
Thy Soul, to God, has winged its way.

In life you loved to study nature,
Learned to sense the wondrous powers;
And although now beyond the ether,
God speaks to us through his flowers.
Flowers, they bring us hallowed memories,
To them our minds and hearts respond;
They are thoughts that oft connect us,
With our friends who have passed beyond.

Yes! We'll tend thy favorite plants,
And watch with care their flowers appear,
In spring when nature's songs abound,
Through all the seasons of the year.
And through the lonely years to come,
With us thy memory shall remain;
Until at last, God calls us home,
Where all his own, shall meet again.

DAVID S. MILLER.

January 24, 1919.

Obituary

Mike Chronis.

Mike Chronis, a retail florist of Pittsburgh, Pa., died on Jan. 28th, aged about 60 years.

Mrs. Elizabeth Fenrich.

Mrs. Elizabeth Fenrich, mother of Jos. S. Fenrich, New York wholesale florist, died at New Haven, Ct., last week after a long illness. She is survived by two sons, one daughter, a brother and a sister.

Joseph L. Ball

Joseph L. Ball, a florist of St. Catharines, Ont., died in Wellands Hospital on Jan. 11th, of pneumonia. He was a well-known florist of St. Catharines and much sympathy is felt in the matter as he had lost his infant son from the same disease only three weeks previous.

Milton Alexander.

Milton Alexander, traveling salesman for a New York firm, died on Jan. 30th from pneumonia contracted on a western trip. Mr. Alexander was a cheery and popular young man, and leaves many sorrowing friends. His wife and one child survive him.

Wm. Meggatt.

Full of years with a well rounded life of usefulness, companionableness and a cheery personality, there passed into rest on February 8, William Meggatt at his home in Wethersfield, Conn. at the age of 84 years.

Mr. Meggatt was one of the organizers of the American Seed Trade Association and served as president of that organization in 1881.

John P. Shaffer.

John P. Shaffer, father of George C. Shaffer, florist, of Washington, D. C., died late last month after more than a year of sickness. Mr. Shaffer was seventy years of age. He is survived also by Arthur Shaffer, a son, who is employed at the store of his brother, and three daughters. The deceased was laid at rest in Congressional cemetery, following most impressive services at his late residence. The funeral was attended by a large delegation of florists.

Fairport, N. Y.—Fire on the morning of Feb. 2d destroyed a couple of the Hart greenhouses, just beyond the village line in South Main street. They were located on the former Salter property.

"LIFE AND VEGETATION OF THE HAWAIIAN ISLANDS."

(An Illustrated Lecture before the Pennsylvania Horticultural Society, Philadelphia, February 18th, by J. Otto Thilow.)

In Mr. Thilow's travels through the Hawaiian Islands, his observations in plant life were so inspiring that he thought it would be of interest to compare the wonderful growth of the fern and palm family with those of same varieties under our own care here in the states.

Although semi-tropic, yet plant life is most spontaneous. The never ending bloom of some one or other variety is not tiring because it is varied in character.

It is well that we should know of the wealth of bloom in our possession in the near Islands of the Pacific.

A climate most agreeable, every day May day, never cold, never hot, always just so. A boon to the plant lover and a haven for the rest seeker, and sanatorium for the fatigued and ailing. We are hoping to transfer much of our tropical seed product from South American countries to our Hawaiian possessions.

While other industries have grown to enormous proportions, new developments are meeting with ready response. Horticulture on its high plane today in Hawaiian Islands, is an evidence of great pleasure to be afforded the plant and flower loving visitors from our own and nearby states in years to come.

Besides the wonders, there is much in geological phenomena of intense interest. Extinct craters are now fern forests and palm groves. Many other horticultural industries of vital importance to the islanders will be shown and their method explained.

Public and private gardens with tropical plantings throughout the year.

The most marvellous and awe inspiring world wonder is the famous Kilauea fire crater, in one constant boil and excitement. Mr. Thilow succeeded in getting a night picture, which depicts in fair measure, this world's greatest wonder on the Island of Hawaii.

THE LOCUSTS ARE COMING.

The 17-year locust or cicada is due to appear in various parts of the country this year. In 1902 this insect appeared and caused the terminal branches on limbs of forest trees to die in midsummer and gave the woods a scorched appearance. In some localities much injury was also done to young fruit trees.

Entomologists suggest, therefore, that it would be well for those contemplating the setting out of fruit

trees this spring to take into account the expected appearance of locusts and to provide cheesecloth protection for the young trees or delay planting until another season.

Arsenical sprays are not serviceable in killing 17-year locusts because they do not feed on the trees. The injury is caused by the females inserting eggs into the young twigs. This weakens the twig, later causing it to fall to the ground.

This insect in its immature stage lives in the ground 16 years feeding on vegetable matter, and in the seventeenth changes to a winged insect which lives only a few weeks without feeding. The locusts will emerge from the ground wherever timber was standing 17 years ago and migrate to nearby trees. Orchards not located near such land will probably be little damaged. The 17-year locusts are harmless to man or animals.

NEWS NOTES.

Montreal, P. Q.—F. C. Smith, gardener for many years on the estate of Sir William Van Horn, has retired.

Amherst, Mass.—Prof. A. G. Hecht has been discharged from the service and is now filling his accustomed place in the college work.

Bridgeport, Ct.—Corp. Francis Reynolds has received his discharge from the service and is now again in his old position at the Taunton Flower Shop.

Somerville, Ont.—Fire broke out on the evening of Jan. 26th in the boiler room of Percy Brillinger's range of houses and did much damage to the stock.

Newark, N. J.—The greenhouses of Jas. F. McDonough on Bellevue avenue were badly damaged by fire which originated in the boiler room of the range.

Albany, N. Y.—George E. Nagen-gert, Jr., has purchased and will remove to 806 Washington avenue two

greenhouses now located at 436 Westland avenue.

Suffield, Conn.—Fire February 8, did damage estimated at nearly \$4,000 to the greenhouses and boilerroom owned by Earl S. Spaulding on Mapleton avenue. The boilerroom was partly damaged, while one of the greenhouses was destroyed. Another greenhouse nearby was also damaged by water and smoke. The origin of the fire is not known, but it is believed that it started in the chimney. One of the greenhouses was filled with thousands of lettuce plants and the other was filled with cabbage plants.

VISITORS' REGISTER.

Cincinnati—I. Bayersdorfer, Philadelphia.

New York—W. N. Rudd, Chicago; Mr. and Mrs. W. L. Rock, Kansas City; Jos. Hill, Richmond, Ind.

Philadelphia—John Badger, J. Badger & Son, Cal.; Martin C. Ebel, Madison, N. J.; James Higgins, A. L. Randall Co., Chicago, Ill.

Rochester, N. Y.—Ethan A. Coon, Rhinebeck, N. Y.; R. G. Slicker and Edward Almvan of A. L. Randall Co., Chicago; Stephen D. Green of H. Bayersdorfer & Co., Phila.; S. W. Morgan, Leroy, N. Y.

Chicago—John Lapes, Cedar Rapids, Ia.; F. E. Bonhan, Macomb, Ill.; P. M. Peterson, Joliet, Ill.; Robt. C. Kerr, Houston, Texas; J. J. Hess, Omaha, Neb.; Rolf Zetlitz, Lima, O.; W. W. Gammage, London, Ont.; J. H. Dunlop, Toronto, Can.; H. Kusik, Kansas City, Mo.; Mr. and Mrs. Blaine Wilcox and Mr. and Mrs. Glenn Wilcox of Council Bluffs, Ia.; Wm. Hennig, Orion, Mich.; J. J. Karins, rep. H. A. Dreer, Philadelphia, Pa.

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Comprising many of the finest forms of **BRASSO CATTLEYA** and **BRASSO LAELIA CATTLEYAS**, **LAELIA CATTLEYAS** and **CATTLEYAS**; **CYMBIDIUMS** bearing long spikes of flower of great lasting qualities; **CYPRIPEDIUMS**, choicest large flowered and free flowering types; **ODONTIODAS**, graceful spikes of many new shades of color; **ODONTOGLOSSUMS**, beautiful large flowered hybrids; **SOPHRO CATTLEYAS** and **SOPHRO LAELIA CATTLEYAS** of the quite new red colors, many of which have received highest Awards from the Orchid Societies of Great Britain together with many thousands of **WELL KNOWN** species and **HYBRIDS** specially suitable to ensure a good supply of cut flowers throughout the year or for any special season as desired.

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LAGER & HURRELL, Summit, N. J.

CHICAGO.

A letter was received this week from Jack Byers, who is with the army of occupation in Germany.

Gus Alles hears that all is well with his two boys, one in the army in France, and the other a marine.

Miss Miriam, daughter of Mr. and Mrs. Jas. G. Hancock, was quite seriously injured in an ice boat accident at Madison, Wis. She is in the University infirmary with a badly lacerated leg.

John Enders recently talked with a returned officer who knew Clarence Enders personally. He says army life agrees with him and that the slender boy who left Chicago in August, 1917, is now a robust young man in France, larger than his father.

The American Bulb Co. has received a car of cannas, tuberose, etc., and as usual they are going out as fast as they can be handled. A. Miller, president of the company, is just back from a swing round the middle west, following the S. A. F. convention.

Miss Olga Tonner is still unable to go to the store and Miss L. A. Tonner manages to do the work of both. O. A. & L. A. Tonner have the distinction of being the only women in the wholesale cut flower and supply business in Chicago, and they are known for having "made good."

Geo. Weinhoeber has a novelty for St. Valentine's day which he originated. Noticing that the red boxes do not always produce harmonious results when filled with flowers, he had a box of shining black with heart of red made to his order, and the result is very pleasing. All kinds of corsage flowers look very neat and attractive in this box.

A. Henderson Co., who recently purchased the Winterson Seed Co.'s store, 166 No. Wabash avenue, has made several changes, enlarging the counter spaces, etc. This is one of the best locations in the city for a large retail business in seeds, plants and nursery stock and everything will be in readiness for the spring trade, no matter how early it comes.

A. Lange has an unusually attractive Valentine window display, the work being designed and executed by Herbert Stone. Diagonally across the east end of the window is a curtain of narrow red ribbons from which peeps a large white cupid. In front of the curtain is an open red heart four feet across and several cupids playing upon the fine strings that cross the heart. It is very pretty and attracts much attention to the window, the balance of which contains stock for Valentine's Day and other occasions.

BEST YOUNG TREES

Little Tree Farms, FRAMINGHAM, MASS.

We have millions of growing EVERGREEN AND DECIDUOUS TREES complete in grades and sizes.

Write for Price List

Seedlings and Transplants, Firs, Junipers, Arborvitae, Pines, Spruces, Maples, Ash, Oaks, Lindens, Elms, etc.



American Forestry Co. 15 Beacon St. Boston, Mass.



CATALOGUES RECEIVED.

Storrs & Harrison Co., Painesville, O.—General Plant Catalogue for 1919. 176 pages, illustrated.

Edward Gillett, Southwick, Mass.—List of native shrubs for garden planting. A very coaxing little brochure.

W. W. Wilmore, Denver, Col.—Dahlias for 1919. This is an exceedingly carefully selected list. Some of the best varieties listed are represented by plates of unusual clearness and quality. Quite a number of new and extra choice sorts are enumerated.

S. M. Isbell & Co., Jackson, Mich.—Isbell's Seeds for 1919. The slogan of Isbell's seeds is, "As they grow, their fame grows." Not bad. This catalogue is a very comprehensive one devoted in large part to fine vegetables and field crops. Small fruits, roots, plants and various other things are also included.

Peter Henderson & Co., New York.—Wholesale catalogue for market gardeners and florists. Superbly illustrated, containing a vast amount of information in a small space, well arranged and tabulated to give desired information quickly and accurately. This is a model of what such a catalogue should be.

W. E. Marshall & Co., New York.—Marshall's Seeds for 1919. This is Messrs. Marshall's 15th anniversary list, and it is a creditable showing for the time, everything considered. It gives quite a full selection of vegetable and flower seeds, lawn grass, Spring requisites in plant and garden requirements, etc., and well fills its place in the progressive seed trade of the day.

Alex. Forbes & Co., Newark, N. J.—We have received two catalogues from Messrs. Forbes & Co., one of them the regular Spring issue of their offers in every garden requisite, which is an exceedingly handsome catalogue, with natural colors used frequently throughout the book. Accompanying this is the Market Gardeners' catalogue, equally attractive and exceedingly creditable to the publishers.

Sluis & Groot, Enkhuizen, Holland.—General wholesale price list of flower seeds, November, 1918. This is one of the representative and reliable

Holland seed establishments, and their list coming as it does at the present time is exceedingly interesting. It contains a very large selection of species and varieties, and speaks well for early resumption of good commercial possibilities in Holland seeds.

VIBURNUM PLICATUM

Also Berberis Thunbergii, Hydrangea paniculata, Weigela, Spiraea, etc.

Ask for complete list of OAK BRAND SHRUBS.

The CONARD & JONES CO. WEST GROVE PENN., U.S.A.

Robert Fyle, Pres.

Antoine Wintner, Vice-Pres.

We are subscribers to the Nurserymen's Fund for Market Development

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NAMED VARIETIES AND MIXTURES IN ALL SIZES.

Surplus Quantities at Bargain Prices.

MAINE BULB AND FLOWER GROWERS
LEWISTON, MAINE

Specialists in Specimen Stock for Landscape Work

Hardy Rhododendrons, Azaleas, Boxwoods, Hollies and a Complete Line of Coniferous Evergreens.

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CHRYSANTHEMUMS
MADISON, N. J.

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SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, F. W. Bolgiano, Washington, D. C.; First Vice-President, Wm. G. Scarlett, Baltimore, Md.; Second Vice-President, David Burpee, Philadelphia, Pa.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

American firms contemplating sending trade literature to Canada should comply with the strictly enforced regulations governing the delivery, within the Dominion, of trade literature through the mails in bulk. Bona fide trade catalogues and price lists not designed to advertise the sale of goods by any person in Canada may be imported duty free in single copies addressed to merchants in Canada and not exceeding one copy to any one merchant for his own use and not for distribution. Large numbers of valuable catalogues mailed to Canada have been returned undelivered, owing to the refusal of the addressees to pay duty thereon. The total value of all of the separate pieces of matter should be first ascertained and duty paid, customs slips for which purpose are obtainable at the principal ports in the United States. Each piece of matter should have written or stamped on the outside wrapper or envelope the words "Duty paid." Catalogues and advertising matter sent in bulk as ordinary merchandise are also dutiable.

U. S. Commerce reports call attention to the fact that seed production has been carried forward on a larger scale in the United States during the past few years than ever before. Early in the war it became apparent that seed production was very largely at a standstill in most of the European countries, and that with the great obstacles to ocean transportation the comparatively small quantities that were produced could not be brought across. Seed growers in the United States undertook to extend their production both as to quantity and varieties, and the result has been that many of them who were formerly importers have now become exporters. Indications are that there is a considerable surplus of several kinds of seeds, and growers are at a loss to know whether to increase or decrease their acreage or to maintain it at last year's standard. A study of conditions in this country alone would not suffice to answer these questions, but must be supplemented with the information now about to be gathered in the countries of Europe. Perhaps no line of business was more deeply disturbed by the war than that of seed growing and distribution.

Burpee's Seeds Grow

Bedding plants and flowers to beautify the homes and gardens of the American public will be in greater demand this spring than ever before.

Every wide-awake florist should now be making preparation to make good on the shortage that is going to be so noticeable this spring.

Bedding plants of every variety are going to be scarce. This scarcity is largely due to the lack of help and the fuel shortage. There are, however, a great many varieties that can be easily grown from seed sown now, and this will help to make up the shortage of Geraniums and other popular bedding plants.

The most suitable varieties to grow from seeds and those which always do well in American gardens are: Ageratum, Alyssum, Asters, Begonias, Celosia, Centaurea, Coleus, Petunia, Salvia, Verbena, Vinca and Zinnia.

The House of Burpee is famous for its superior strains of flower seeds. The stocks of some of the varieties mentioned are short. Consequently, we advise ordering early.

CHOICE FLORISTS' FLOWER SEEDS FOR PRESENT SOWING

AGERATUM Tom Thumb. Blue.
AGERATUM Tom Thumb. White.
 Admirably adapted for bedding, blooming freely until frost.
ALYSSUM Little Gem, Lilac Queen, Sweet Alyssum.
ASTERS All the best new and standard varieties. See catalog.
BEGONIAS for bedding.
 Seed sown now will make perfect plants for spring sales.
DUCHESS OF EDINBURGH White edged rose.
GRACILIS ALBA Pure white
PRIMA DONNA Coral-pink
VERNON Deep red
VULCAN Fiery-scarlet

MACHET Large florets of gray color.
GIANT BOUQUET Fine for cutting.
COMMON SWEET

PETUNIA

The American bedding plant *par excellence*.
BALCONY WHITE The best white bedder
BALCONY BLUE The best blue
BALCONY ROSE The best rose colored
BURPEE'S DEFIANCE The largest of all ruffled Petunias
GIANTS OF CALIFORNIA Our own growing

STOCKS. Ten Weeks

The indispensable "bedder" for cool sections. Largest Flowering Globe Pyramidal in the following separate colors:
Crimson Rose, Dark Blue, Pure White, Light Blue, Golden Chamois, Salmon-Rose, Canary-Yellow, Darkest Crimson, Lilac-Rose.

VINCA

The Madagascar Periwinkle is excellent for pots or bedding
ROSEA Rosea Alba and Alba Pura

CHRYSANTHEMUM

Burpee's Fordhook Strain or Early-flowering Single Perennial varieties. Sown during spring the plants will bloom from August until frost. Excellent for cutting.

BURPEE'S SWEET PEAS ARE KNOWN

THE WORLD OVER

Sow now for Decoration Day.

BURPEE'S EARLY-FLOWERING SPENCERS

See Catalog for full list and description of varieties.

FOR ALL THAT IS BEST IN VEGETABLE AND FLOWER SEEDS

Write for Burpee's Annual. The leading American Seed Catalog. Also ask for our Special Blue List of Wholesale Prices.

CALENDULA

Burpee's Improved Strains are unexcelled. The flowers all fully double and of great size.
LEMON QUEEN The best lemon.
ORANGE KING The best orange

CELOSLA

Our Fordhook Strain of the plumed Celosia Magnificent is, we believe, the finest in the country.
CARMINE Rich carmine-crimson
GOLDEN YELLOW Rich yellow.
ORANGE-RED Reddish-orange
REDDISH-PLUM Warm plum.
ALL COLORS MIXED

CENTAUREA

The following are foliage varieties or Dusty Millers.
CANDIDISSIMA Silvery-white foliage
GYMNOCARPA Finely cut silvery leaves.

MIGNONETTE

This favorite has been a Burpee Specialty for many years. The following are the varieties we offer:
GOLIATH Massive spikes, coppery-red florets.

W. Atlee Burpee Co.,
 Seed Growers Philadelphia.

**NEW BUILDING OF THE G. H.
HUNKEL CO., MILWAUKEE,
WISCONSIN.**

We present a photograph of the new building of the above mentioned firm they have just occupied. This building consists of three floors and basement, each 50 by 100 feet. The first floor is used as a retail salesroom and offices; the second floor for packeting and filling; the third floor for storage and cleaning; the basement for storage. An electric elevator has been installed. All the latest appliances for the handling and quick filling of orders are used and the entire establishment is modern and up-to-date.



The G. H. Hunkel Co. was established in 1904. In 1912 the Wernich Seed Co. of Milwaukee was absorbed. The officers of the G. H. Hunkel Co. are: E. P. Hunkel, president; H. V. Hunkel, vice-president, and G. H. Hunkel, secretary and treasurer. An extensive retail and wholesale business is done in seeds, fertilizers, poultry supplies, etc.

**MAULE'S
SEEDS AND BULBS**

Write for our 1919 Special Price List
for Market Gardeners and Florists.

WM. HENRY MAULE, Inc.

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A Card This Size

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It would keep your name and your
specialty before the whole trade.

A half-inch card costs only 45c. per
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GREENHOUSE SAVED SEED

These stocks are great improvements on the Beauty of Nice Strain. They bloom in four to five months from sowing and under good cultivation, (disbudded), attain height of 2½ to 3 feet, producing a gigantic flower spike bearing beautiful large double flowers, the actual seed offered below has produced as much as 85% doubles.

LENOX PINK

PRINCESS ALICE, White

ABUNDANCE, Carmine

**BEAUTY OF NICE
(Improved)**

CANARY YELLOW

LENOX MAUVE

VIOLET (Perpetual)

**ALMOND BLOSSOM,
blush**

**AUGUSTA VICTORIA,
Lilac**

CRIMSON KING

Each color separate. Tr. pkt. 25c.; ¼ oz. \$1.25

Arthur C. Boddington Co., Inc.

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**We are Headquarters for the BEST OF EVERYTHING
IN
VEGETABLE SEEDS**

With our Stock Seed Farm at Grass Lake, Mich., and our growing stations in every part of the United States where seeds are grown successfully, all in charge of capable and experienced men, we are equipped for and are producing

PEAS, BEANS, CORN AND VEGETABLE SEEDS
of all kinds in quantity and of highest quality.

Glad to quote for present delivery or on growing contract for crop of 1919.

JEROME B. RICE SEED CO., Cambridge, N. Y.



LILY OF THE VALLEY

Original Cases containing 1750 Pips,
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"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes
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The Florist

"The Telegraph Florist"

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We Cover all Points in Maine

**Providence, Rhode Island
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LEADING FLORISTS**

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Of Interest to Retail Florists

ADVERTISE.

A gifted writer of business and finance says that if you have confidence in your business, advertise. Could anything spell of more optimism to the florists of today than that. If the florist of today doesn't have the confidence in his business that he should have, he not only should not advertise but he should close up shop and make room for those who have confidence.

We are starting out for a \$100,000 campaign backed up by local advertising and those who back up our campaign are not only showing confidence but display the finest asset; the co-operative spirit of broadening the sphere of more uses of more flowers. Note the many times flowers are desirable from the time of birth of the babe to the time of going to the great beyond. Are you doing your share in cultivating the many uses flowers are eligible and is not the publicity campaign also your agency for spreading the propaganda?

Are you helping your campaign? Show your confidences are thereby being imbued with the same spirit the brethren who so faithfully contributed last year and this year again.

Do your part and your confidence will not be misplaced. Send in your contribution so that the campaign will reach to its new proportion \$100,000 for the people to "Say it with flowers."

Henry Penn

Chairman National Publicity Campaign.

MR. ALBERT STRUMPH

Is in charge of the new Salesrooms of the

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Mr. Strumph, who is one of the best known young men in the florist business, says he has joined the staff of this concern because: "It has ever been my aim to join a large organization with duties of large responsibility and this goal has been reached in my association with the Boston Floral Supply Co."

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**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good
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NEW YORK**

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FLOWER DELIVERIES FOR ALBANY
AND VICINITY

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NO ORDERS ACCEPTED FOR LESS
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The best of F. T. D. Service always

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Deliveries to Steamers and all Eastern Ports

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
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THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

CLEVELAND
A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

Retail Deliveries
to central Hudson River points, on
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440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
stock and prompt deliveries in BUFFALO,
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For Retail Stores a Specialty
ASK FOR LIST
THOMAS ROLAND, Nahant, Mass.

WORCESTER, MASS.
Randall's Flower Shop
HARRY I. RANDALL, Proprietor.
Member Florists' Telegraph Delivery

PRACTICE WHAT YOU PREACH.

The following extract from a Philadelphia daily paper is a good illustration of how a bright retailer had the "Say it with Flowers" idea some thirty years ago.

When Edward Bok came to Philadelphia thirty years ago, he walked into the flower shop of H. H. Battles.

The florist had a very modest place in those days, unlike the present gorgeous establishment on Twelfth street. The editor and the florist are both ardent flower-lovers, and the call developed into a close friendship between the two men.

And Mr. Battles has had a nice way of showing it. Every day during all these thirty years whenever Mr. Bok is at his office there has stood, as there stands today, a vase of beautiful roses on the editor's desk.

Never in all those years has a day been missed. The flowers are looked for by every caller at the editor's office and at the close of business they have further mission—they go to the editor's home, are given to some delighted girl on the staff or are sent to the home of a sick friend.

The item is also a good illustration of the old adage, "Practice what you preach."

NEW FLOWER STORES
Pleasantville, N. Y. — Pleasantville Flower Shop.

New York, N. Y.—Cash Floral Co., 152 West 28th St.

Union, S. C.—Rosehill Greenhouse Co., 1519 Main St.

Rockland, Mass.—Mrs. Warren Johnson, South Main St.

San Francisco, Cal.—Art Floral Co., Geary St., enlarging.

Baltimore, Md.—Wholesales Florist & Supply Co., 512 St. Paul St.

Joplin, Mo.—William Gibson has bought out the French Flower Shop in West 4th street.

Quality and Reliability
WARBURTON
FALL RIVER, MASS.
Deliveries of Flowers and Plants in FALL RIVER and contiguous territory.

EAST ORANGE, N. J.
SMITH, The Florist
We deliver by automobile in East, West and South Orange, also Glen Ridge, Montclair, Bloomfield, Newark and New York.

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ROOTED CARNATION CUTTINGS

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Can also furnish most any other variety.

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EDWARDS FOLDING BOX CO
MANUFACTURERS
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From Henry M. Robinson & Co.

For Safety Place Your Orders With Us

HENRY M. ROBINSON & CO.

2 Winthrop Square and 32 Otis Street, BOSTON, MASS.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Feb. 13		ST. LOUIS Feb. 10		PHILA. Feb. 10	
Roses						
Am Beauty, Special.....	75.00	to 100.00	50.00	to 60.00	.....	to 100.00
" " Fancy and Extra.....	50.00	to 75.00	30.00	to 40.00	60.00	to 75.00
" " No. 1 and culls.....	20.00	to 30.00	12.00	to 20.00	30.00	to 40.00
Russell.....	15.00	to 35.00	15.00	to 25.00	25.00	to 40.00
Hadley.....	15.00	to 35.00	5.00	to 10.00	10.00	to 40.00
Mock, Key.....	10.00	to 25.00	5.00	to 25.00	.....	to 40.00
Arenberg, Hoosier Beauty.....	10.00	to 25.00	10.00	to 15.00	10.00	to 25.00
Ward, Hillingdon.....	10.00	to 25.00	6.00	to 10.00	.....	to 25.00
Killarney, Key, Taft.....	10.00	to 25.00	10.00	to 20.00	10.00	to 25.00
Ophelia, Sunburst.....	10.00	to 25.00	10.00	to 25.00	10.00	to 25.00
Carnations.....	4.00	to 6.00	4.00	to 8.00	6.00	to 1.00
Cattleyas.....	75.00	to 100.00	60.00	to 75.00	40.00	to 50.00
Lilies, Longiflorum.....	16.00	to 25.00	20.00	to 25.00	20.00	to 25.00
Lilies, Speciosum.....	8.00	to 20.00	.....	.....	6.00	to 8.00
Lily of the Valley.....	8.00	to 12.00	8.00	to 10.00	.....	.....
Snaptadragon.....	8.00	to 12.00	8.00	to 10.00	15.00	to 20.00
Violets.....	1.50	to 2.00	.....	.....	1.00	to 1.50
Narcissus.....	3.00	to 4.00	2.00	to 3.00	6.00	to 8.00
Calendula.....	2.00	to 4.00	2.00	to 4.00	8.00	to 10.00
Sweet Peas.....	2.00	to 4.00	1.00	to 2.00	1.50	to 3.00
Gardenias.....	.....	to 100.00	.....	.....	50.00	to 60.00
Adiantum.....	1.00	to 1.50	.....	.....	1.50	to 2.00
Smilax.....	.....	to 25.00	.....	.....	.....	to 25.00
Asparagus Plumosus, & Spreng. (100 Bchs.).....	35.00	to 50.00	50.00	to 150.00	50.00	to 60.00

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ROSES, CARNATIONS

AND ALL OTHER SEASONABLE STOCK

Shipping orders have most careful attention always

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Flower Market Reports

With an increased demand and a shortening up of the supply, prices have taken another jump this week, and with Valentine's Day in sight business has shown a marked improvement over last week. Roses have fallen off somewhat, but the quality is excellent while carnations are being received in larger quantities and hold up well. Lilies are scarce, as are also lily of the valley. Bulbus stock of nearly every description is more abundant and moves fairly well. Violets are having an unusual demand owing to Valentine's Day, as are also sweet peas. In fact, the whole market is active and brisk.

The shortage of stock which has prevailed for many weeks is now more nearly confined to roses which continue to be in very limited supply as compared to the demand. This applies to all kinds and grades. Carnations are by no means in over supply but the quantity coming is much more nearly equal to the number called for daily, leaving prices steady at a figure which pleases the grower. Violets are coming in greater abundance than at any previous time this season and a good business is looked for at St. Valentine's Day when the violet corsage easily leads the day. Sweet peas are also seen in large quantity and with orchids will be in high favor for cupid's holiday. Excellent quality of southern asparagus plumosa is now offered in three grades.

Business continues to be exceptionally good. Everything that comes into the market is finding a ready sale and considerable more stock could be used if it were available. Roses are very scarce and receipts in this line do not begin to satisfy the demand for them. Carnations are cleaning up and bringing top prices. Lilies, callas and rubrum are only in a fair supply and all meet with good market and prove good property. Sweet pea receipts, generally, are of a high quality and find a ready sale. Bulbous stock, including daffodils, jonquils, tulips, paper white narcissus, yellow narcissus, freesia, Dutch and Roman hyacinths are becoming more plentiful from day to day. All have been selling well. Other offerings are orchids, snapdragon, single violets, calendula, forget-me-not and baby primrose.

Trade last week was sufficiently brisk to entirely clean up all

The Chicago Flower Growers Association

WHOLESALE GROWERS of CUT FLOWERS and PLANTS

L. D. Phone Randolph 631

182 N. Wabash Avenue, CHICAGO

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Feb. 10		CHICAGO Feb. 10		BUFFALO Feb. 10		PITTSBURG Feb. 10	
Roses								
Am. Beauty, Special.....	30.00	to 75.00	75.00	to 100.00	60.00	to 75.00	50.00	to 60.00
" " Fancy and Extra.....	30.00	to 40.00	50.00	to 60.00	25.00	to 50.00	25.00	to 40.00
" " No. 1 and culls.....	8.00	to 25.00	15.00	to 35.00	5.00	to 20.00	6.00	to 20.00
Russell.....	15.00	to 30.00	10.00	to 40.00	8.00	to 30.00	10.00	to 25.00
Hadley.....	15.00	to 25.00	15.00	to 25.00	8.00	to 15.00	.....	to 25.00
Euler, Mock.....	15.00	to 25.00	15.00	to 25.00	6.00	to 15.00	10.00	to 25.00
Arenberg, Hoosier Beauty.....	10.00	to 20.00	8.00	to 30.00	6.00	to 10.00	.....	to 25.00
Ward, Hillingdon.....	8.00	to 15.00	6.00	to 18.00	6.00	to 8.00	6.00	to 15.00
Killarney, Key, Taft.....	8.00	to 15.00	6.00	to 20.00	6.00	to 15.00	6.00	to 15.00
Ophelia, Sunburst.....	8.00	to 25.00	8.00	to 20.00	6.00	to 15.00	8.00	to 25.00
Carnations	6.00	to 10.00	2.50	to 8.00	3.00	to 5.00	4.00	to 6.00
Cattleyas.....	60.00	to 75.00	60.00	to 90.00	60.00	to 75.00	50.00	to 60.00
Lilies, Longiflorum.....	.....	to 20.00	18.00	to 30.00	15.00	to 20.00	20.00	to 25.00
Lilies, Speciosum.....	.....	to 20.00	.....	to 20.00	8.00	to 10.00	.....	to 20.00
Lily of the Valley.....	8.00	to 10.00	6.00	to 10.00	8.00	to 10.00	8.00	to 10.00
Snapdragon.....	12.00	to 15.00	10.00	to 20.00	8.00	to 25.00	6.00	to 8.00
Violets.....	1.00	to 2.00	1.00	to 1.50	1.00	to 1.50	.75	to 1.25
Narcissus.....	5.00	to 6.00	4.00	to 8.00	3.00	to 4.00	.....	to 25.00
Calendula.....	4.00	to 6.00	4.00	to 6.00	4.00	to 6.00	4.00	to 6.00
Sweet Peas.....	1.00	to 3.00	2.00	to 4.00	2.00	to 4.00	1.00	to 3.00
Gardenias.....	.....	to 25.00	50.00	to 75.00	20.00	to 25.00	.....	to 25.00
Adiantum.....	1.00	to 1.50	1.25	to 2.00	1.00	to 1.50	1.50	to 2.00
Smilax.....	.....	to 25.00	25.00	to 30.00	15.00	to 20.00	.....	to 20.00
Asparagus Plu. & Spre. (100 Bhs.)	35.00	to 50.00	50.00	to 75.00	35.00	to 50.00	30.00	to 60.00

stock offered. Roses are still scarce and prices are being maintained with singular firmness. Offerings of sweet peas are heavier with the longer grades being in great demand. Many more fancy carnations could be moved daily. Very few lilies are being received, which heavily augments the call for callas. Both double and single violets move slowly, even at reduced prices. Single daffodils are now occupying a prominent place in the daily receipts, as are also single tulips, both being popular and meet with ready sale. There is a general scarcity of adiantum and asparagus. Bulbous stock and the smaller flowers for corsages are in excellent supply.

Nearly everything is coming in more plentifully and the demand has slowed up with a consequent fall in prices except for American Beauties, the supply of which is still light. In other roses the average price is 25 to 40 per cent. off. Carnations are going at half the price of two weeks ago. The general supply is by no means heavy and present prices would seem good a year ago. Gardenias are scarce, cattleyas not in over supply, but lily of the valley is not finding much of a market. Bulbus stock, paperwhites and tulips are in good supply and selling well and at good prices. Longiflorums are not in much demand and callas move very slowly. Quite a bit more iris is coming along but the demand so far has kept it fairly well cleaned up. Among the miscellaneous stock such as calendulas,

Roman hyacinths, wallflowers and mignonette meet with but a moderate demand. Asparagus plumosa has been selling well with a rather light supply which is now on the increase. Smilax is in ample supply for the demand.

The market continues slow, and stock is plentiful.

Bulbous stock is good and sells in preference to anything else. Tulips are just making the first showing. The supply of roses is heavier than a week ago. Lilies are not very plentiful. Sweet peas bring good prices. Carnation prices are lower. In the stores a good display of potted stock is noticed which is moving in preference to the cut flowers. The sale of violets is not very encouraging, but for Valentine's Day many orders are already placed.

Trade is keeping up good. Carnations are holding up well and roses are still scarce with a good demand. Narcissus, freesias and tulips are fairly plentiful and violets and sweet peas are in good demand and stiffening in price.

NEW CORPORATIONS.

Newark, N. J.—S. A. Rogers Co., 453 Broad St.; capital stock, \$40,000. Incorporators: W. E. Pratt, S. A. Rogers and G. Tracy Pierson.

Brooklyn, N. Y.—Gloria Products Corporation, florists' supplies, capital stock, \$20,000. Incorporators, R. Beck D. E. Horwitz and M. M. Voit.

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WHOLESALE FLORISTS
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Telephones, 12-4510 Madison Square
MAURICE L. GLASS, Treasurer
Consignments Solicited

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Part of Week ending Feb. 8 1919		First Part of Week beginning Feb. 10 1919	
American Beauty, Special	50.00	to 125.00	50.00	to 125.00
" " Fancy and Extra	25.00	to 50.00	25.00	to 40.00
" " No. 1 and culls.	5.00	to 20.00	5.00	to 10.00
Russell	6.00	to 30.00	8.00	to 35.00
Hadley	8.00	to 60.00	6.00	to 60.00
Euler, Mock, Key	8.00	to 35.00	6.00	to 30.00
Arenberg, Hoosier Beauty	5.00	to 20.00	4.00	to 20.00
Ward, Hillingdon	5.00	to 15.00	4.00	to 15.00
Killarney, Taft	5.00	to 15.00	4.00	to 12.00
Ophelia, Sunburst	6.00	to 25.00	6.00	to 20.00
Carnations	3.00	to 5.00	3.00	to 6.00

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111 W. 28th St., NEW YORK
D. J. Pappas, Pres.

REED & KELLER
122 West 25th St., New York
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We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Boston Floral Supply Co.

347-357 Cambridge St., Boston
Headquarters for
CYCAS, BASKETS, WIRE DESIGNS
and WAX FLOWERS
Send for price list if you have not received one.

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$2.25 50,000...\$0.75 Sample free.
For sale by dealers.

ROBERT DYSART
CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting
especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
40 STATE STREET . . BOSTON
Telephone Main 48

When writing Advertisers kindly mention Horticulture

Local and General News

BOSTON.

Richard Hayden, of the Boston Park Department, who has been seriously ill for the past two months, is able to be about once more and will soon assume his duties in the department.

"Land Drainage—Its History, Its Problems and Its Possibilities" was the subject of a lecture in Horticultural Hall last Saturday afternoon by Arthur E. Horton, a consulting engineer, of Lexington. Mr. Horton outlined the great possibilities by way of increased crops at low cost when thorough land drainage is applied to the soils of New England—and particularly Massachusetts. Mr. Horton in his historical outline said that it is a matter of record that Yu, the great Chinese engineer, directed the construction of some of the most important drainage works in China more than forty centuries ago. Also it is pretty well known that the Chaldeans, Babylonians and Egyptians practiced intelligent irrigation and drainage for many centuries.

The free lecture at Horticultural Hall, Boston, Saturday, February 15, will be by Dr. B. T. Galloway, Office of Foreign Seed and Plant Introduction, Washington, D. C., on Protecting American Crop Plants Against Alien Enemies, illustrated. In this lecture Dr. Galloway is expected to state the attitude of the government on the subject of the Plant Exclusion Embargo recently adopted by the Federal Horticultural Board. No subject ever brought before the Horticultural Society has aroused such interest among florists, nurserymen and amateur cultivators as this and a strong opposition to the enforcement of this drastic ruling has developed. Both sides of the subject will be presented at the meeting and the discussion will probably have important results.

ROCHESTER, N. Y.

Charles H. Vick is among the newly appointed managers for the Rochester Exposition.

John Murrell has completed a new building which is used as a garage, office and show room.

George R. Case formerly with James Vick's Sons, has been honorably discharged from the Aero Depot stationed at Garden City, L. I.

George Havill of J. B. Keller Sons has been home suffering with an at-

J. J. COAN, INC. Wholesale Florist

116 West 28th Street, NEW YORK

Phones:
Farragut 5413 and 5891

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MISCELLANEOUS	Last Part of Week ending Feb. 8 1918		First Part of Week beginning Feb. 18 1919	
Cattleyas.....	15.00	to 50.00	15.00	to 50.00
Lilies, Longiflorum.....	15.00	to 20.00	15.00	to 20.00
Lilies, Speciosum.....	10.00	to 12.00	10.00	to 12.00
Lily of the Valley.....	2.00	to 6.00	2.00	to 6.00
Snagdragon.....	8.00	to 25.00	8.00	to 25.00
Violets.....	.40	to .75	.50	to .75
Narcissus.....	4.00	to 6.00	4.00	to 5.00
Calendula.....	.35	to 1.00	.35	to 1.00
Sweet Peas.....	1.00	to 4.00	3.00	to 5.00
Gardenias.....	35.00	to 75.00	35.00	to 75.00
Adiantum.....	.50	to 1.00	.50	to 1.00
Smilax.....	16.00	to 25.00	16.00	to 25.00
Asparagus Plumosus, & Spreng (100 bunches).....	15.00	to 30.00	25.00	to 30.00

tack of influenza. W. H. Dildine is also confined to his home.

George T. Boucher has the decoration for the Policeman's Ball this week. This calls for several thousands of violets for the patronesses.

Arnold Brockman, son of Ed Brockman has been honorably discharged from the U. S. Army. His other son, Edward, is in hospital recuperating from an operation.

Ambrose H. Secker, Secretary of the Florists' Association has written an interesting article recently in the local papers, advising the people not to be in any too great a hurry to trim the shrubs and trees.

Sincere sympathy is extended to William S. Riley, Commissioner of Parks, in the death of his aged father who passed away at the age of 83 years. Within a couple of weeks of his death he was actively engaged in business, going to his office daily.

Quite a disastrous fire took place at the greenhouses of George B. Hart at Fairport, N. Y. last Sunday morning. Most of the houses were entirely destroyed. Plans have already been drawn up for the erection of new houses and the work of clearing away the debris has been started.

The annual election of officers of the Ladies' Auxiliary of the Florists' Association took place at the home of Mrs. Wm. L. Keller on February 11th. Officers for the year are: Mrs. E. R. Fry, president; Mrs. H. P. Neun, vice-

president; Mrs. Chas. Suhr, treasurer; Mrs. H. W. Wilson reelected secretary. Refreshments were served by the hostess.

NEW YORK.

Miss Nina Isabel Peek, long connected with one of the seed establishments of the city, and widely known in the trade of New York, was married at Jersey City, Feb. 1st to Reginald A. Lawrence.

The annual convention of the New York State Market Gardeners' Association will be held at Chancellor Hall, Albany, on Feb. 20 and 21. A banquet will follow the sessions on Washington's birthday at Keeler's Hotel.

Mrs. Sara W. Coe, wife of Dr. Henry Clarke Coe, now serving abroad with the American Army, has sold her property known as "Bona Vista," adjoining the Huntington Golf and Marine Club, overlooking beautiful Huntington Bay, to Col. Frank H. Ray. This property, although only two acres in extent, is one of the most attractive houses in Huntington. It has a greenhouse and beautiful and elaborate planting of trees, shrubbery and hedges.

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WHY?

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PHILADELPHIA.

Montague Wright, of the Lord & Burnham Co., is in town this week looking over the situation with other experts from headquarters. The indications point to an early resumption of business with offices in this city as in days gone by.

In appreciation of the loyal and efficient service of William E. Bougy, assistant treasurer of the Burpee Company, a dinner was given in his honor Feb. 6th by David Burpee, president, and W. Atlee Burpee, Jr., of the company, at the Union League. Managers of all the departments were present. Mr. Bougy is the oldest employee of the company and this occasion celebrated his thirty-fifth anniversary in its employ. He came as an office boy and has remained all through the firm's development till it is now the largest mail order seed house in the world.

CINCINNATI.

Dan and Harry Gray have returned to this country from France. They arrived in Hoboken, N. J., a week ago. Geo. Kessen has received his honorable discharge from the service and is back in this city.

After the Cleveland meeting of a fortnight ago C. E. Critchell was host, in this city, to Messrs. George Arnold, Boston, Mass., Allan Pierce, Waltham, Mass., William Nicholson, Framingham, Mass., and Joe Hill, Richmond, Ind.

WASHINGTON, D. C.

Zack Carrick, formerly with the Louise Flower Shop, is joining with Frank Weaver, formerly with the Leo Niessen Company, in the opening of a retail flower stand in the Center Market.

Will Sawyer, for many years with Fred H. Kramer, but who has more recently been in the employ of florists in the South, has returned to Washington and is now with the Louise Flower Shop.

Word has just been received by Mrs. Wilson, wife of Clifford Wilson, for-

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New Peony Dahlia—John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to **PEACOCK DAHLIA FARMS, Berlin, N. J.**

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Greenhouse glass, lowest prices. **JOHN-STON GLASS CO., Hartford City, Ind.**

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HOT BED SASH

Standard Hot Bed Sash, 3 x 6, \$1.50 each. Order for 10 to 24, \$1.45 each; 25 to 50, \$1.40 each. Glass, 50 square feet, 6 x 8, 8 x 10 at \$4.50. 10 x 12, 10 x 14 at \$4.25.
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HASSALL & CO., Orchid Growers and Raisers, Southgate, London, England. Cattleyas and Laelio-Cattleyas our specialty. One trial order solicited.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. **C. BETSCHER, Canal Dover, O.**

merly employed by the Washington Floral Company who has been serving with the 312th Machine Gun Company, that Mr. Wilson is in a hospital in France as a result of wounds received in action. No word had come from the soldier for many months and the thought was that he had "Gone West."

David Grillbortzer is reconstructing the boiler house on his place in Alexandria. The structure was some weeks ago destroyed by fire and Mr. Grillbortzer found it difficult to get help in rebuilding. Five rose houses and two sweet pea houses were affected by the shutting down of the boiler plant.

NEWS NOTES.

Muncie, Ind.—The business of the

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. **LAGER & HURRELL, Summit, N. J.**

SWEET PEAS

Just Arrived, crop 1918 winter flowering **SWEET PEAS**, New Zealand grown, the large flowering waved or Spencer type. We have been very fortunate to secure the entire crop of one of the best growers in New Zealand. New Zealand grown seed has always produced the earliest and best blooms, and seed started in August will produce flowers from Thanksgiving until March; requiring a low temperature, these make an ideal crop for the Florist this year. Scarlet, always a good seller. Finest Mixture, all the best colors. Pink and White, Blanche Ferry type. Yarrowa (true), bright rose pink with light wings. Write for further particulars.
JULIUS ROEHR'S CO., Rutherford, N. J.

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SITUATION WANTED as outside gardener on private estate by single man who thoroughly understands the business.
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FOR SALE

VALUABLE GREENHOUSE PROPERTY
For sale at public auction at Newtonville, Mass., Monday, February 24, at 3 o'clock p. m. Consists of five greenhouses, two of which are nearly new; also cold frame. A fine office and stable also on the property, and will be sold at the same time. Centrally located and has always commanded a first class trade and lots of it. A good opportunity for enterprising florist. For further information, address **MRS. M. S. MANSFIELD, Newtonville, Mass.**

Williams & Clark Floral Co. has been sold to **E. Buchholtz** and **Frank Wilson**.

Brooklyn, N. Y.—The retail store at 4519 5th avenue of the late **Theodore Krombach**, has been sold to **William Young**.

Bridgeport, W. Va.—The boiler house and pumping station of the **Hayman Greenhouse Co.**, were destroyed by a gas explosion on January 21st, with a loss of about \$2,000.

BUSINESS TROUBLES.

Newtonville, Mass.—**Geo. W. Harris**, florist, assets, \$4,342; liabilities, \$6,633.

New York, N. Y.—**H. Brauch**, 18 East 106th avenue, liabilities, \$4,813; no assets.

LEMON OIL CO'S STANDARD INSECTICIDE

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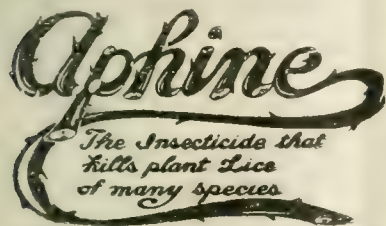
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10	20 in.	\$3.25	\$37.50	\$287.50
20	18 in.	2.75	30.00	237.50
30	16 in.	2.25	26.00	195.00
40	14 in.	1.90	22.00	168.75
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60	10 in.	.95	10.50	77.50
70	8 in.	.75	8.25	62.50

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New Haven, Ct.—Chas. Conte & Co., one carnation house.

Cleveland, O.—Wilson Florist Co., four houses to be rebuilt.

PUBLICATIONS RECEIVED.

The 31st annual report of the Maryland State College of Agriculture at College Park, Md., for 1917-1918 has been received. This is devoted largely to agricultural topics which are of paramount interest in its field. There is much that is very useful in the contents regarding insects, soil tests, strawberry problems, fertilizers and cultural notes on many other specialties of the neighborhood. For those interested in the topics treated, it will be found very interesting and instructive.

The Missouri Botanical Garden Bulletin for January contains the 30th annual report of the director and a mass of interesting statistical information. It is illustrated with some beautiful photographs of garden views. The directors' report speaks particularly of the destruction caused by the severe winter of 1917-1918 and mentions as the greatest single loss the destruction of all but three of the fine specimens of *Magnolia grandiflora*, which had been brought from Florida the previous Spring. The attendance for the year 1918 is recorded as 106,057 for week days and 107,010 for Sundays, a total of 213,067.

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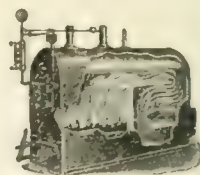


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FULL
SIZE
No. 2



Principles and Practice of Pruning

By M. G. KAINS

Lecturer on Horticulture, Columbia University

Few practices in the handling of plants, especially fruit bearing plants, attract so much interest as do those of pruning. The methods are so varied, the results so diverse, and the opinions of growers so apparently contradictory that this subject is always one of the most interesting, and the surest to hold attention and arouse discussion.

Particularly during the last ten or fifteen years when the principles of plant physiology have been more and more satisfactorily applied to plant production and management has interest settled in pruning. During the latter half of this time also more and more investigations and tests have been conducted by experiment stations and other workers to test out methods and principles in the interest of science and for the benefit of growers. The accumulation of such new knowledge has become very considerable especially in the last decade, but it is necessarily so scattered that very few growers have access to it, hence the demand for a book, which shall present the really important features of these investigations as well as set forth the fundamental principles based upon the laws of plant growth.

This volume is lavishly illustrated mainly by actual photographs of specimens which show good and bad practices. The author has spared neither time nor expense in gathering his photographs, each one of which tells its story.

After a few pages of introduction the author discusses Plant Physiology as related to pruning. A chapter takes up the Philosophy of Pruning, itself a very interesting subject. Then follows a classification and discussion of Buds, very fully illustrated from life. How Wounds Heal is an exceedingly interesting chapter, as are also those on Prevention and Repair of Mechanical Injuries, Pruning Nursery Stock, Young Trees, Mature Trees and Odd Methods of Pruning and Training, Rejuvenating Neglected Trees and Practical Tree Surgery.

Profusely illustrated. 400 pages. 5½ x 8 inches.
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HORTICULTURE PUBLISHING CO.
147 Summer St., Boston, Mass.

Plant Propagation, Greenhouse and Nursery Practice

By M. G. KAINS

We have had many inquiries from time to time for a reliable and up-to-date book on plant propagation, but were always at a loss to find any publication that we could recommend. The subject has been dealt with in fragmentary manner only in books that have come to our notice. So it is well that this new work has been issued, especially as it is both comprehensive and practical, and it should meet with a ready sale among plantmen, nurserymen and gardeners. There are nineteen chapters covering in detail topics of germination and longevity of seeds, propagating by buds, layering, cuttings, grafting, etc., fruit tree stocks, scions, etc., and there are eight pages of condensed cultural instructions in tabulated form, covering annuals and perennials from seed, woody plants, evergreens, vines, bulbs and tubers, greenhouse and house plants, ferns, palms, water plants, orchids and cacti. The illustrations are numerous, comprising 213 figures and halftone plates. There are 322 pages well bound and on heavy paper, teeming with helpful information. It is a book which no cultivator can afford to do without. It is worth many times its price. Copies can be supplied from the office of HORTICULTURE at publisher's price, \$1.50.

HORTICULTURE PUBLISHING CO.
147 Summer St., Boston, Mass.

HORTICULTURE

Vol. XXIX

FEBRUARY 22, 1919

No. 8

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LIST OF ADVERTISERS

	Page		Page		Page		Page		Page
Advance Co.....	192	Chicago Flower		Graham & Son,		Kottmiller	184	Pulverized Ma-	
Allen, J. K.....	189	Growers Asso..	187	A.....	185	Lemon Oil Co....	191	nure Co.....	191
American Bulb		Childs, John		Grakelow, Chas.		Liggit, C. U.....	171		
Co.....	170	Lewis.....	170	H.....	185	Low Co., Stuart..	180		
American Fores-		Clarke, D. Sons.	184	Grey & Co, T. J..	170			Randalls Flower	
try Co.....	181	Coan, J. J.....	189	Gude Bros. Co....	184	Maine Bulb &		Shop	185
Anderson, S. A..	185	Cooke, Geo. H....	184			Flower Grow-		Reed & Keller....	188
Aphine Mfg. Co.	191	Conard & Jones.	181	Hail Asso.....	191	ers	181	Reidel & Meyer..	188
				Hammond Paint		McHutchison Co.	172	Reid, Edw.....	186
Barrows, H. H..	172	Cottage Gardens		& Slug Shot		Marshall, W. E.		Reuter, L. J. Co.	172
Bayersdorfer, H.		Nurseries	181	Works	191-192	& Co.....	170	Rice & Co., Je-	
Co.....	186	Cowee, W. J.....	188	Hart, Geo. B....	186	McKenzie, John.	185	rome B.....	183
Bay State Nur-		Craig Co., Robt..	171	Heistad, H.....	192	Michell, H. F. Co.	170	Robinson, Henry	
series	172			Henderson & Co.		Michigan Cut		M. Co.....	188
Bobbink & At-		Danker	184	A.....	186	Flower Ex.....	186	Robinson, H. M.	
kins	171	Dards	184	Hentz & Nash....	189	Millang, Chas....	189	& Co.....	186
Boddington Co.,		Dreer, H. A.....	172-191	Hess & Swoboda.	185	Muller-Sealey Co.	171	Roehrs, J. Co....	172
Inc., A. T.....	183	Dunlop, John H..	185	Hews & Co., A.		Murray, Samuel..	184	Roland, Thomas..	185
Bolgiano & Son.	170	Dwelle - Kaiser		H.....	190			Rosery, The.....	184
Boston Floral		Co.....	192	Hill Co., E. G....	186	National Nursery-		Schwake, Chas.	
Supply Co.....	188	Dysart, R.....	188	Hill, D. Nursery		man	181	Co.....	171
Breck, J. & Sons.	170			Co.....	181	Nicotine Mfg. Co.	192	Sekenger, Adam..	184
Breck - Robinson		Edwards Folding		Irwin, R. J.....	170	Niessen, Leo Co..	186	Sheridan, W. F..	188
Co.....	171	Box Co.....	186					Shinn, Warren..	183
Breitmeiers, J.		Esler, J. G.....	191	Johnston Bros..	184	Palmer, W. J. &		Siebrecht, Geo. C.	188
Sons	184					Son	185	Siggers & Sig-	
Budlong, J. A....	186	Farquhar, R. &		Kasting, W. F.		Park Floral Co..	185	gers	191
Bunyard, A. T....	184	J. Co.....	170	Co.....	186	Parshelsky Bros.	192	Skidelsky, S. S.	
Burnett Bros....	170	Fengar, E. W....	171	Kelway & Son....	170	Penn the Florist.	184	& Co.....	170
Burpee, W. A. &		Ford, M. C.....	188	Kervan Co.....	188	Pennock, S. S.		Smith, Elmer D.	
Co.....	170-182	Ford, W. P.....	188	Knoble Bros....	185	Co.....	169	& Co.....	181
		Froment, H. E..	188	Kroeschell Bros.	192	Pierce Co., F. O.	191	Smith, P. J.....	188
Carter's Tested		Galvin, Thos. F..	185	Kuebler, W. H..	188	Pierson, A. N....	169	Smith, W. & T.	
Seeds, Inc.....	183	Gasser Co., J. M.	185			Pierson, F. R....	169	Nursery Co....	181

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THE PLANT EMBARGO MENACE

"ABSURDITIES AND ANOMALIES" IN QUARANTINE 37.

While the florists have been working and sacrificing for the relief of Belgium for four war years, it prevents the Belgians shipping any of the stock they have preserved for us -- and which we urgently require.

While it prohibits the importation of practically every horticultural item that Belgium produces (Azaleas, Bay Trees, Araucarias, made-up Kentias, Begonias, etc.), it allows the only horticultural item that Germany produces (lily of the valley pips), to come in.

It stops the importation of *Dracaena* canes which furnish the only raw material from which we could produce the colored varieties here.

It places such restrictions on the importation of Palm seeds (which cannot be packed in "sand, soil or earth") as to make it impossible to import the seeds necessary to produce palms here.

It allows the the importation of Rose stocks, yet stops the importation of these same stocks when any variety is grafted or budded on them.

It allows the importation of Lily bulbs, but only when they are not packed in "sand, soil or earth"—and this restriction of course absolutely stops the importation of Lily bulbs, unless modified.

It allows the importation of lily of the valley pips if no sand is about the roots, yet sand is the only material that will prevent the rotting of pips when packed or kept in storage.

It makes practically impossible the importation of bulbs, pips, etc., because a little "sand; soil or earth" is necessary in their packing, yet apparently has no jurisdiction over the millions of tons of the same material which is dumped here annually which comes as ballast in ships from foreign countries.

It allows the importation of Hyacinth, Tulip and Narcissus bulbs, yet stops the importation of T. R. Begonia and Gloxinia bulbs. Is it because the latter come from poor bleeding Belgium?

While seeking to "protect the country from insect pests and plant disease in the interest of the florists and nurserymen" it gives no protection whatever from pests, but is the worst knock-out blow the florists and nurserymen ever received. It is destructive instead of constructive. It kills business without hurting the bugs.

While it places all varieties of bulbs and palm and tree seeds under inspection and red-tape restrictions, it gives the florists and nurserymen no protection whatever from the breeding places of insect pests and plant diseases, which in many instances are just across the fence.

Write to your Congressmen and Senators for redress. Also to D. F. Houston, Secretary of Agriculture, Washington, D. C., giving reasons why you expect him to revise these regulations.

ANOTHER VIGOROUS PROTEST.

The Minnesota State Horticultural Society, having a membership of 3,200 men and women interested in horticultural work and progress, does herewith emphatically protest against the enforcement of Quarantine Order No. 37, made by the Federal Horticultural Board.

Under the ruling of this Board the above Quarantine Order will take effect June 1, 1919, and will put an embargo on nearly all plants which have in the past been imported from foreign countries and are still needed in the future for the benefit and enjoyment of the people of our country.

We submit the following reasons why this embargo is unfair, unjust and should not be enforced:

1. The purpose of the embargo is to prevent the importation of plant diseases and insect pests; which purpose will not be accomplished unless importation of all plants is prevented.

2. If there is danger in importing trees and shrubs, there is also danger in the importation of scions and buds; against which there is no embargo.

3. There is as much danger in importing rose stock for grafting as there is in grafted stock and plants on their own roots.

4. If lily bulbs, lily of the valley, narcissus, hyacinth, tulips and crocuses can be imported, why are snowdrops, iris, orchids, anemone, astilbes, begonias, gladiolus, gloxinias, etc., etc., excluded.

5. We know of no good reason why azaleas, rhododendrons, araucarias, boxwood, bay trees, dracaenas, palms, orchids, etc., should not be imported.

6. Until plants needed can be produced here in the desired quality and quantities, their importation should be permitted. A large number of these plants will, most likely, never be satisfactorily produced in this country.

7. The enforcement of the embargo will deprive this country of the benefits of horticultural progress made in foreign countries and deny us the introduction of novelties produced abroad by horticultural establishments of world-wide reputation, which are as much interested in having their plants free of disease and insects as we are ourselves.

8. Last, but not least, it is possible

to prevent the importation of diseases and insect pests through proper inspection and precautionary measures made and taken at the points of shipment and ports of import.

For the reasons herein stated we consider the ruling of the Federal Horticultural Board to be arbitrary and unwarranted. We respectfully protest against the enforcement of this embargo, because we know that its results will be detrimental to the horticultural interests of the United States.

As individuals and as an Association we are devoted to unrestricted progress and development of horticulture, which is facilitated and made possible through intercourse and close affiliation with other progressive countries and interests.

Circular letter from the Board of Park Commissioners, Minneapolis, Minn., February 14th:

Dear Sir—As you know, Mr. G. L. Marlatt, Chairman of the Federal Horticultural Board has issued a new eight-page statement dated February 1st, explaining and defending Quarantine Rule 37, about which I addressed myself to you previously.

This statement is the result of the numerous and uniform protests received from all parts of the country by Members of Congress and the Board itself. It does not, however, bring out anything of importance, that has not been known or is not understood by those who protest against the ruling of the Board, nor does it in the least lessen the justice and contentions of those protests.

The insinuation of Mr. Marlatt, that these protests are mainly due to the solicitation of the Henry A. Dreer Company of Philadelphia, a firm who has possibly done more for American production of plants of all kinds than any other in the country is unfair, and an insult to the intelligence and integrity of the horticulturists all over the country.

This entire question has been the subject of consideration and discussion by practically every organization interested in horticultural subjects and undertakings in the United States. A perusal of the trade papers and periodicals devoted to horticulture gives a clear reflection of the sentiments and opinions on this question from all sections of the country.

The horticulturists, professionals and laymen alike, are well aware of the good intentions of the Department of Agriculture in protecting and assisting their common interests. They recognize and appreciate the splendid work done by the department and the incalculable value of the services rendered in the past and to be received in the future. There is absolutely no tendency on their part to belittle the work done, nor to misconstrue the motives of the department's action in the matter.

The horticulturists feel, however, that inasmuch as all the members of the Federal Board are Scientists, that its findings and conclusions are scientifically one-sided, and do not give the practical side of the question the recognition to which it is entitled. The Board assumes in its edict a decided autocratic attitude, to which the horticultural interests need not and do not intend to submit.

One statement in Mr. Marlatt's pamphlet of explanation, I wish personally to challenge in particular, viz: "The experts of this Department are convinced that it will be possible very promptly to produce in this country all the plants prohibited by this Quarantine and this opinion has been endorsed by leading nursery men and florists."

This claim is so much at variance with actual facts, as to cast justified doubts as to the correctness of many other contentions in that document. It would also be well to know, considering the indignant protests caused by the attitude of the Federal Board on this question, which are the particular firms and individuals, which

give this ruling their unqualified support and approval.

Judging by letters, which have been received by me and others, from our Members in Congress, it seems a foregone conclusion that the Federal Horticultural Board does not intend to modify its ruling to any satisfactory extent, and that our appeals for recognition and adjustment must be directed to Congress.

Through my official position as Superintendent of Parks of one of the largest park systems in the country, a position, which I have held now for fourteen years after serving ten years in a similar capacity in another city, I feel justified in claiming that I am representing through my plea, thousands of people, who take great interest in this matter, but who have no means of knowing what is going on or to present and defend their cause. I beg leave to present the following suggestions:

1. That the Federal Board be requested through Congress to postpone the enforcement of Quarantine Order No. 37, for at least one year, during which time the question can be thoroughly considered from all points of view and interests.

2. That the membership of the Federal Horticultural Board be changed so that there shall be not less than two professional horticulturists of practical commercial experience in said Board of five members.

3. That a questionnaire blank be drawn up, printed and distributed among all horticulturists all over the country, and through which a large amount of valuable and determining information will be secured on hand of which final conclusions may be based.

This entire question is of such great importance that I feel justified in bespeaking of you, your careful consideration and attention to this entire matter, and for which attention I wish to extend to you in advance, my grateful appreciation.

Yours very truly,

THEODORE WIRTH, Supt.

PROTECTING AMERICAN CROP PLANTS AGAINST ALIEN ENEMIES.

The last lecture of the annual winter course of the Massachusetts Horticultural Society was delivered last Saturday by Dr. B. T. Galloway of the United States Department of Agriculture, Washington, D. C.

Dr. Galloway dwelt largely on the work of the Department in introducing new fruits and economic plants and also on the causes leading up to the adoption of the recent plant embargo, known as Quarantine 37.

The conclusions in reference to protecting American crop plants against alien enemies were summarized as follows:—

1. There are many thousands of insects and diseases not yet introduced here, which are known to attack plants in foreign countries. Since the organization of the Federal Horticultural Board in 1912 and the development of careful systems of inspection, an average of about 100 dangerous insects and about the same number of fungous and related parasites have been discovered each year on stock shipped to this country from Holland, Belgium, France, England, Germany, and Japan. Holland is credited with 148 such insects, Japan 108, France 89, Belgium 64, England 62, and Germany 15.

2. The material proving the greatest source of danger consists of balled or potted plants with earth about their roots. It is impracticable to properly inspect such material here and the certificates of foreign inspectors have proved to be of little or no value. From one of the smaller European countries 1,236 separate and distinct shipments were examined in the past six years and each shipment was

found to be infested with one or more dangerous insects; 307 of these shipments were azaleas.

3. No system of inspection will prevent the spread of dangerous insects and diseases. The very best system of inspection may delay the spread and for this reason properly conducted inspection pays, for it may be regarded as a form of insurance. Exclusion of the plants themselves is not always an absolute safeguard but it is the safest method known and has been adopted in one form or another by practically all civilized countries.

4. After careful study of all phases of the subject the Federal Horticultural Board decided on a system of limited exclusion. Under this plan the governing principle is to limit commercial plant importations to the classes of plants which have been represented by the plant interests concerned in this country as being essential to plant production; in other words, the raw material out of which salable fruit trees, roses, etc., are made. To these have been added certain classes of plants, including bulbs and seeds, which could be reasonably safeguarded by inspection and disinfection.

5. The main features of the new quarantine are as follows:—

Requires permits and compliance with regulations for importation of lily bulbs, lily of the valley, narcissus, hyacinths, tulips, and crocus; stocks, cuttings, scions, and buds of fruits for propagation; rose stocks for propagation, including Manetti, Multiflora, Brier Rose, and Rose Rugosa; nuts, including palm seeds, for propagation; seeds of fruit, forest, ornamental, and shade trees, seeds of deciduous and evergreen ornamental shrubs, and seeds of hardy perennial plants.

Leaves unrestricted, except in special cases, importations of fruits, vegetables, cereals, and other plant products imported for medicinal, food or manufacturing purposes; and field, vegetable and flower seeds.

Excludes all other classes of plants for propagation, including fruit trees, grapevines, bush fruits, grafted and budded roses, forest, ornamental and deciduous trees, ornamental and deciduous shrubs, pine trees of all kinds, broad-leaved evergreens (such as azaleas and rhododendrons), and a long list of plant material commonly known as florists' stock.

Excluded plants may still be imported through the agency of the Department of Agriculture, in limited quantities to supply the country with novelties and necessary propagating stock, such entry being safeguarded by highly-developed inspection and quarantine service which has been organized by the department.

6. The office of Foreign Seed and Plant Introduction in the Department of Agriculture will act as an agency to aid horticulturists and others in the importation of novelties and plants for propagating, etc. The office has been introducing new and rare plants for more than twenty years and during that time it has brought in more than 50,000 lots. It has developed special facilities for the care of plants during inspection and has established five field stations where its introductions are propagated and tested. It is engaged in constructive work on stocks

for American fruit trees and stocks for roses and other ornamental plants. Studies are also being made of the regions which offer the best conditions for the growing of ornamentals and other plants now imported in large numbers but which under the new quarantine will be excluded.

The lecture provoked much heated discussion and general condemnation of what was regarded as a most arbitrary and high-handed action on the part of the officials, who were regarded by the audience as having overstepped the authority given them by Congress.

A WINTER MUSHROOM

There is one wild mushroom, the Velvet-stemmed Collybia, which is often rather plentiful during the winter months. It may be found from October to May and was fairly abundant during December, 1918. On account of the mild weather thus far this season, it is also very likely to occur during spells of mild weather in January and February.

This mushroom is easily recognized by the tan-colored cap, the velvety-brown stem which fades out to nearly white at the top, the white or cream-colored gills on the lower side of the cap, and the habit of growing in dense clusters on dead wood. The cap varies somewhat in its shades of color from light yellowish-brown to reddish-brown. During wet weather it is very sticky so that leaves and dirt adhere to it. These can be easily picked or washed off, however. The mushrooms grow in clusters on trees, stumps, fallen logs, or buried wood of elm, willow, maple, basswood, and other deciduous trees. They have even been found in cities.

On account of the season in which they grow, there will probably be little danger of confusing them with poisonous kinds. No specimens should be eaten, however, which do not conform to the description just given. No decaying caps should be gathered, but dried or shrivelled caps will usually freshen up while being washed. Freezing does not seem to injure their edibility.

The Velvet-stemmed Collybia has an excellent flavor, and is, in fact, one of the best of our edible mushrooms. The best way of cooking it is to wash thoroughly, then parboil for thirty minutes in water to which a little salt may be added and fry it with a steak in plenty of butter. The stems should be rejected unless very young. Another way is to fry them for about fifteen minutes in butter or bacon fat after parboiling. They may be served on toast or as a separate dish.—W. G. Stover, Department of Botany, Ohio State University, Columbus, Ohio.

Ornamental Trees and Shrubs of Merit For New England

(A paper with the above title was read by Wm. H. Judd at the Eighth Annual Convention of the New England Nurserymen's Association held in Boston, January 28 and 29, 1919.)

Mr. Judd named and described some of the most attractive of the newer flowering trees and shrubs thriving at the Arnold Arboretum. Among the list were the following:

Hamamelis vernalis, a native of Missouri and Arkansas, and *Hamamelis mollis*, and, belonging to the same family, *Corylopsis Gotoana*.

Prinsepia sinensis, the first shrub to unfold its leaves in spring, a perfectly hardy tall and vigorous shrub with spreading spiny branches and clusters of bright yellow flowers produced in the axils of the leaves. The red fruit that comes later is about the size of a cranberry.

One of the handsomest of the Asiatic deciduous rhododendrons is *Rhododendron Schlippenbachii*. A perfectly hardy shrub bearing in early May beautiful large flesh pink flowers. It should be planted in the shade, for the flowers are of a thin texture and fade out quickly in the sun. Several hundred of seedlings were raised last year and it should soon become a popular variety, although in one or two Massachusetts gardens are some fair sized plants already.

Rhododendron careanum (*R. Poukhanensis*), a low, compact bush with a profusion of rosy mauve fragrant flowers produced in May. The common variety, "Yodogawa," is a double-flowered form of this species.

Rhododendron mucronulatum bears pale rose colored flowers about end of April.

Rhododendron carolinianum, which flowers in June, is one of the best broad leaved evergreens recently introduced and never fails to give a crop of its pale rose pink clusters of flowers, either in sun or shade every June.

There are numerous good varieties of flowering apples, but a selection of one or two of the best would include *Malus Arnoldiana*, *Malus Sieboldii* *calocarpa*, *Malus Toringo incisa* and the double flowered form of *Malus Ioensis* known as Bechtels Crab.

The new roses are numerous but one of the best introduced from China is without doubt *Rosa hugonis*. The long arching branches are completely covered from end to end with beautiful pale yellow flowers. Another new and interesting rose is *Rosa Omefensis*, a vigorous grower, having the

young stems covered with broad bright red prickles, and in May bears pure white fragrant flowers with only four petals.

Rosa multiflora cathayensis should be taken hold of by the hybridist. It is a climber and Chinese representative of the well-known multiflora, but bears large clusters of single pink flowers with a centre of yellow anthers flowering about the middle of May. It fruits freely and is one of the parents of the Crimson Rambler.

The Cotoneasters have recently attracted the most attention of any of the newer Chinese shrubs. There are about fourteen varieties useful as decorative shrubs. The very best ones include first of all, *Cotoneaster racemiflora soongorica*. It is a tall, much branched, wide spreading shrub, and during May the slender arching branches are closely packed with clusters of white flowers in upright trusses, and in the fall the shrub is completely covered with bright red fruits and is probably the most attractive shrub in the Arboretum.

A very similar shrub is *Cotoneaster multiflora calocarpa*—bluish green foliage and produces erect clusters of white flowers. With this one the flower is the most attractive part as it is with *Cotoneaster hupehensis*, in May looking like one huge bush of spiraea. This is the handsomest of all in flower. Other good varieties are *Cotoneaster nitens*, with shiny small foliage and a profusion of small black fruit; *Cotoneaster dielsiana*, with small red fruit in clusters, and *Cotoneaster divaricata*, with large oval red fruit that remain on till December. *Cotoneaster apiculata* and *Cotoneaster adpressa* are fine for the rockery.

Among *Diervillas* the most attractive of all the numerous hybrids and species, *Diervilla florida venusta* takes first place. Every year all the branches are closely covered with the long tubular rose pink flowers. This ranks as one of the best new decorative shrubs of recent years and is quite hardy.

Among *Viburnums* there are two of merit, namely *V. theiferum* and *V. hupehensis*. The former during October, bears very showy fruit in large pendulous clusters, light orange color changing later to scarlet. *V. hupehensis* bears in fall drooping clusters of large red berries, as large as those of *V. Opulus*.

For its fragrance in flower, there is no more delightful shrub than *Syringa pubescens*, equally as attractive as any of the popular forms of lilac and should be better known than it is. It bears long tubular flowers of pale lilac that fill the surroundings with a delightful perfume.

Neillia sinensis has slender drooping branches and at the end of every branchlet is a raceme of bell shaped clear pink flowers during June. This is considered by some people to be

one of the most attractive new Chinese shrubs.

During the month of July there is no more attractive bush than *Cytisus nigricans*. It is a compact little bush about three feet high, every year covered by long erect racemes of bright yellow flowers of a bright yellow color and freely produced.

Deutzia hypoglauca is one of the hardiest and best of the new species from China. It is tall and produces very pretty clusters of white flowers.

Indigofera amblyantha must not be forgotten as one of the shrubs that gives a continuance of flowers for three months, axillary racemes of small rose pink flowers that continue to expand from the end of June till October.

Coming to the fall one of the most attractive trees is *Acanthopanax ricinifolia*. This is a tree with stems and branches covered with stout prickles and bears large lobed foliage very similar to that of the Castor Oil Plant.

Among evergreens it is too early to say anything definite about the new Chinese Spruces but *Abies holophylla* promises to be one of our best new firs. A large number of seedlings are now growing from seed collected by Mr. Wilson in Korea a year ago, but there are one or two plants in Massachusetts twelve years of age.

The so-called *Picea Albertiana* is proving very popular and is a good plant for the rockery or a dwarf collection, but I believe as it gets older it will become bare and unsightly at the base.

Considerable interest has been taken with the Asiatic cherries the last few years, one of the best and most hardy ones being *Prunus serrulata sacchaliensis*. It grows into quite a large tree and has pink and rose colored flowers. It is suggested as a good hardy stock for most of the tree like cherries.

Viburnum Carlesii has found its place as the most fragrant of all the *Viburnums* and the flowers that are pink in bud, changing to white, open in succession for several weeks.

Lonicera syringantha Wolfii long drooping branches and clusters of fragrant violet colored flowers. (Middle of May).

How many nurserymen carry that beautiful old *Syringa Rothomagensis* (*chinensis*) or Ruen Lilac as it is called. It is one of the handsomest, hardiest, and most vigorous of all the lilacs. It bears enormous clusters of small flowers of the ordinary lilac color. (It is a hybrid between *Persica* and *vulgaris*.)

A late flowering lilac known as *Syringa Wolfii* (from middle to end of June) is very handsome, bearing dark bluish purple flowers very profusely. It is a native of Mongolia and has been in the Arboretum since 1906.

Laburnum Alpinum is the handsomest yellow flowered small tree that can be grown in New England and curiously is little known. It seeds freely every year and a quantity usually spring up under the tree.

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CONTENTS

Page

THE PLANT EMBARGO MENACE—"Absurdities and Anomalies" in Quarantine 37—Another Vigorous Protest	173-174
PROTECTING AMERICAN CROP PLANTS AGAINST ALIEN ENEMIES	174
ORNAMENTAL TREES AND SHRUBS OF MERIT FOR NEW ENGLAND—William H. Judd.....	175
SOCIETY OF AMERICAN FLORISTS—National Publicity Campaign—The Plant Quarantine.....	177
CLUBS AND SOCIETIES—Lenox Horticultural Society St. Louis Florist Club—Holyoke and Northampton Florists' and Gardeners' Club—International Flower Show, 1920—Gardeners' and Florists' Club of Boston—Nassau County Horticultural Society—Horticultural Society of New York.....	178-179
Club and Society Notes.....	190
OBITUARY—Frederick Algner—Mrs. Alice Kent—Marius Mutillod—Mary Belle Henderson—Dean Thompson—John Maurice Hunt—Mrs. Mattie McFarland	180
SEED TRADE—European Seed Situation—Important Seed Legislation Pending—Embargo on Red Clover Seed Exports Removed.....	182-183
OF INTEREST TO RETAIL FLORISTS: Do Good by Stealth—G. C. Watson.....	184
New Flower Stores.....	185
FLOWER MARKET REPORTS: Boston, Chicago, Cleveland, Philadelphia, Rochester, St. Louis	187
LOCAL AND GENERAL NEWS: Chicago, Rochester, St. Louis.....	189-190
MISCELLANEOUS: A Winter Mushroom.....	174
Expects Enough Fertilizer.....	177
An Important Hearing.....	177
Improving Blueberry Industry.....	177
Carnation Bernice—Illustration.....	179
Take Up the Slack.....	180
The Seedsmen	181
Catalogues Received	181
Visitors' Register—Business Troubles.....	185
News Notes	190
Greenhouses Building or Contemplated.....	190
New Corporations	191

Soft coal has declined in price from two to three dollars per ton according to the locality and dealer, from former top notch figures. There is now abundance of coal on hand everywhere and dealers are anxious to book orders for immediate delivery. Some dealers do not hesitate to admit that a further reduction is likely to take place in the near future. It is generally believed that next year's supply will be procurable at

prices which will range probably one-third less than those now prevailing. Purchases should be made now only for immediate needs.

Another insect pest

Another bad insect pest, the European corn borer (*Pyrausta nubilalis*) has made its appearance

in two states in this country, New York and Massachusetts. In New York it seems to have invaded three counties, while in Massachusetts it seems to be as yet limited to one or perhaps two. Besides corn this borer attacks practically all herbaceous plants which have flower-stems or leaf-stalks large enough to harbor it and also such garden and flowering plants as celery, Swiss-chard, beans, beet, spinach, dahlias, hollyhocks, gladiolus, chrysanthemums and geraniums. Fortunately its flight is shorter than the brown-tail and gipsy moths and it is hoped that if energetic measures are taken at once, which are already well under way, the borer may be exterminated in a few years.

"This Quarantine is Come to Stay, and to Stay Forever"

Not in many years has there been such heated discussion following a lecture of the Massachusetts Horticultural Society, as that which, last Saturday, followed the lecture by Dr. B. T. Galloway of the Department of Agriculture, Washington, on "Protecting American Crop Plants Against Alien Enemies." Dr. Galloway, as had been expected, discussed at length the situation with which the Federal Horticultural Board had to deal, and the conditions which caused the Board to place an embargo on all foreign plants, with a few minor exceptions. In the audience were several persons from New York and New Jersey, who made the journey to Boston for the sole purpose of getting correct information of the purpose of the government in relation to the quarantine. The lecture was largely a resume of the reasons already set forth in the literature, or defense of the embargo, after which Dr. Galloway gave his hearers the opportunity to ask questions. The statements and arguments of the lecturer were vigorously assailed by Mr. W. N. Craig, of Brookline. Mr. W. H. Wyman, of Abington, and other speakers, and it was in the midst of Mr. Craig's arraignment, that Dr. Galloway made the retort: "**This Quarantine is come to stay, and to stay forever!**" Unfortunate as the language and spirit of this retort may have been, especially coming from an official of the government, it nevertheless disclosed beyond any question of doubt, the futility of any further appeal for consideration of the rights of the horticultural trade to officials assuming this arrogant and defiant attitude.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

NATIONAL PUBLICITY CAMPAIGN.

In the notes furnished by our Promotion Bureau last week, was the schedule covering the national magazine advertising planned for the spring publicity. In that schedule a page and a half page were apportioned to the Saturday Evening Post. It is disappointing to have to change our plans in respect to this publication. The proprietors of this magazine decline to accept advertising necessitating such large blocks of space until their mechanical conditions are such as to enable them to take care of more than pre-contracted space. There is a limit to everything, even the mechanical possibilities for turning out popular magazines.

In the emergency our committees have arranged to use two other magazines which more than fill the circulation gap.

But there is a lesson to come from the turn-down, one for the trade rather than our executive forces.

None of us realizes the immense amount of foresight and preparedness which the modern magazine of large circulation must bring to bear on the publication of each number. The proprietors must know weeks, perhaps months, ahead exactly what an edition is to demand in the way of pages, and mechanical preparation is made ac-

cordingly. It is big work, and the problems are always onerous.

Now, here is the lesson. We are desirous of having our publicity appear at times when we think it will be most beneficial. To fulfil our desires we must act betimes. If our Committees have not the assurance of financial support sufficient to warrant the making of contracts three or more months ahead, they lose out on prestige in so far as selection of mediums is concerned. With them it is not a matter merely of spending money; it is rather a question of getting the most for the money they expend.

The Committees are grateful for the continued, and, in the majority of cases, added support of a large number of florists whose vision is clear enough to see that the work of our campaign has actually, and without question, benefited the florist trade to an enormous extent. It is known that thousands in the trade have not yet subscribed a cent towards this greatest of all movements for our common good. If they will but come into line—there is no dictation as to what their contributions shall be—our committees can better look ahead and make arrangements which bespeak greater proficiency in their service. It is, of course, comforting to know that a certain sum can be expected, but this is not a case where personal

liability can be pledged, and we should have our drawing needs in hand.

We are at the end, almost, of the first two months of 1919, and we have, altogether, \$100,000 to raise for this year's publicity. Of this amount about \$30,000 is already raised. The balance is big, but heavy with possibilities for the florists trade. As Wallace R. Pierson said at a recent trade meeting, "Through this publicity we are entering the 'promised land,' where we shall get the best from our endeavors."

Mr. Nonsubscriber, isn't it time you headed for this land of promise with a subscription ticket?

THE PLANT QUARANTINE.

A further meeting of the interests affected by the embargo against plant importations was held at the offices of the S. A. F. and O. H., 1170 Broadway, on Friday afternoon and evening, February 14, at which were present J. D. Eisele, of Dreer's, Riverton, N. J.; F. R. Pierson, Tarrytown, N. Y.; C. B. Knickman, of McHutchison & Co., New York; Robert Pyle, of Conrad & Jones Co., West Grove, Pa.; Leonard H. Vaughan, Chicago, Ill.; Curtis Nye Smith, Boston, Mass.; John Watson, Princeton, N. J.; W. H. Moon, Morristown, Pa., and Thos. Meehan, Dreshertown, Pa.

The situation was fully discussed, and the matter of further action in an effort to have the embargo lifted considered at length.

JOHN YOUNG, Secy.

Feb. 18, 1919.

EXPECTS ENOUGH FERTILIZERS.

The prospects of adequate supplies of fertilizers for use this spring are good. The producing capacity of ammonium sulphate plants has been doubled since 1913. Large stocks of nitrogenous materials brought into the country, for munition purposes are now available for agriculture, and there is a surplus of sulphuric acid producing capacity, together with available supplies of phosphate rock, to produce ample quantities of acid phosphate. The Department of Agriculture has \$10,000,000 worth of nitrate of soda for distribution to farmers for cash at \$81 a ton, plus freight. Indications are that supplies of European potash can not be obtained in time for use this spring.

AN IMPORTANT HEARING.

The Federal Horticultural Board has called a hearing for Feb. 26, at Washington, D. C., to argue why both Massachusetts and New York States should not be placed under quarantine regulations as to interstate shipments of gladiolus, dahlias—bulbs and tubers—chrysanthemum, and all other field, vegetable and flowering herbaceous plants, all on account of the European corn borer, now widely prevalent in these states.

John L. Bennett, for the past 12 years associated with the Bay State Nurseries at North Abington, Mass., has resigned his position to become manager of the nursery department of A. N. Pierson, Inc., Cromwell, Conn.

IMPROVING BLUEBERRY INDUSTRY.

Among about 20,000 blueberry hybrids that have fruited thus far on the government testing plantations at Whitesbog, near Brown Mills, N. J., several bushes have produced berries three-fourths of an inch or more in diameter. This work indicates that important progress is being made to improve the blueberry industry in the United States. Only such plants as possess fruit with small seeds and delicious flavor, as well as other desirable qualities, such as color, productiveness, and hardiness, are selected for propagation and distribution.

Denver, Col.—Wm. Hennenhoefler, landscape gardener, has opened an office at 2116 E. 17th avenue.

CLUBS AND SOCIETIES

LENOX, MASS., HORTICULTURAL SOCIETY.

The monthly meeting of this society was held in the Town Hall, Lenox, Feb. 12th. A splendid display of carnations including the varieties Laddie, C. W. Ward, Pink Sensation and a deeper pink sport of this same variety was staged by F. E. Nash, gard. to A. N. Cooley, Pittsfield. President Johnson showed a fine vase of yellow antirrhinum.

Resolutions were unanimously adopted disapproving the recent action of plant exclusion by the Federal Horticultural Board and a copy ordered sent to Rep. Treadway of this state. Following routine business a recess was declared to welcome the members' wives and many visiting friends. The society was organized a quarter of a century ago and in view of the significance of this, the 25th anniversary, an excellent program was arranged for the presentation of the society's diploma to its past presidents. Edwin Jenkins, chairman of the committee on arrangements, presided during the rest of the evening and announced the program. A most delightful entertainment preceded the presentation in which a few of the most prominent artists of Pittsfield and Lenox took part—a recitation by Miss Anna Jenkins, "The Wee Penny Whistle of Sandy McGraw"—received much applause and to which Miss Jenkins responded with "Back to Blighty," splendidly rendered and equally well received. At the conclusion of the instrumental and vocal entertainment the chairman called upon Arthur T. Boddington, New York, one of the oldest members of the society to make the formal presentation.

Mr. Boddington in well chosen words outlined briefly the progress of the society since its inception. He was personally acquainted with each of the recipients of the diploma and said at the outset that it was a most remarkable fact that as yet not a single death had been recorded of a past president of the Lenox Horticultural Society. Another fact worthy of note was that with the exception of three, all were present to receive the diploma. Letters had been previously read before the meeting from John F. Huss, Walter Jack and George Foulsham, the three past presidents unavoidably absent.

While many of the recipients are still residents of Lenox several had traveled long distances: Martin Finaghty, Boston; Charles R. Russel, Tarrytown; Allen Jenkins and Edward Edwards, both of Worcester, Mass. A few others came from outlying districts. Mr. Boddington was accorded a rising vote of thanks for having so very eloquently "done his duty."

Light refreshments were then served to the hundred people present, who later danced to the music of a splendid orchestra and who in the wee sma' ours of the mornin' returned to their homes well tired but exceedingly happy. The committee in charge—E. Jenkins, A. H. Wingett and F. Heeremans—is to be complimented on the success of this meeting.

ST. LOUIS FLORIST CLUB.

The club met Thursday afternoon at the salesroom of C. A. Kuehn. The carnation show was postponed till March meeting, as being the day before Valentine's Day many retailers and growers could not attend.

President Hummert spoke on his recent visit to Cleveland and the S. A. F. meeting at Detroit, and urged that every florist become a member of S. A. F.

President Fred Ammann also spoke on the future great work mapped out for the Society of American Florists, and urged further support.

The next meeting will be a Carnation and Spring Flower Show, and outside growers are requested to send their new varieties for exhibition. The location of the meeting is not yet decided.

HOLYOKE AND NORTHAMPTON FLORISTS' AND GARDENERS' CLUB.

The regular meeting of the Holyoke and Northampton Florists and Gardeners' Club was held on Tuesday, Feb. 11, at E. J. Canning's Nursery, Northampton, Mass. M. Adams of Butler & Ullman of Northampton was elected a member. E. J. Canning gave a brief but entertaining report of the New England Nurserymen's Convention at Boston and James Whiting of Amherst gave a talk on outdoor roses.

The monthly prize was won by H. E. Downer, of Smith College, with a pot of *Primula malacoides* var. King Albert.

INTERNATIONAL FLOWER SHOW, 1920.

An enthusiastic meeting of the Flower Show Committees of the New York Florists' Club and the Horticultural Society of New York was held at the headquarters of the New York Florists' Club, 1170 Broadway, on Monday afternoon, February 17, 1919.

Only five members of the committees were absent. The following were present: Theodore A. Havemeyer, F. R. Newbold, Richard G. Hollaman, F. R. Pierson, C. H. Totty, W. H. Duckham, Jos. A. Manda, George V. Nash, P. W. Popp, John Canning, Philip F. Kessler, Charles Schenck, F. L. Atkins, J. Scheepers, Max Schling, W. H. Siebrecht, Sr., A. L. Miller and Secretary John Young.

At this meeting the committees merged into a joint committee and unanimously decided to hold a spring show in 1920, the opening date to be Monday, March 15th, and the closing date Sunday, March 21st. The show will be held in the Grand Central Palace, which is shortly to be re-converted to exhibition use. \$15,000 was voted to be set aside for premiums. C. H. Totty was appointed chairman of the Schedule Committee. Theodore A. Havemeyer was elected chairman of the Joint Committee, with John Young as secretary and F. R. Newbold, treasurer. The secretary is to have charge of selling the trade space and will also have charge of the preparation of the official program.

Many novel features to be introduced at the show were discussed, and it is expected that the program will be unique in this respect. F. L. Atkins, W. H. Duckham and Max Schling were appointed a committee to design the official sign for the exhibitors, with directions that the slogan of the Publicity Campaign "Say it with flowers" is to be featured at the head of every sign. No other design of signs is to be permitted. It was decided to offer a prize of \$100 for a poster design and this announcement is to be made forthwith.

Arthur Herrington was appointed manager of the show and also was added to the committee. E. F. Korbel and Worth F. Colwell were appointed publicity managers.

F. L. Atkins, for Bobbink & Atkins, Rutherford, N. J., was first to book for exhibition space, taking 200 square feet; Max Schling was a close second to book for the same amount.

The meeting went on record as disapproving the recent action of the Federal Board of Horticulture in establishing a quarantine against importation of plants and flowers. It was considered that such action will rob lovers of horticulture of the opportunity to see many desirable European and other foreign productions in plants and flowers, and would undoubtedly take away some educational interest which has always been attaching to flower shows.

JOHN YOUNG, Secy.

February 17, 1919.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

Carnations of every conceivable variety and color formed the principal feature of the first regular flower show ever given by the Gardeners' and Florists' Club of Boston, held Tuesday afternoon at Horticultural Hall.

The show was held because of the fact that the Massachusetts Horticultural Society had decided to abandon its annual exhibition this year. The public was invited to attend and a large number visited the hall.

The first prize for a new carnation was captured by the "Bernice," a deep crimson, exhibited by W. D. Howard of Milford, and the second prize went to C. S. Strout of Biddeford, Me., for his "Sunshine" pink, a pale yellow. Mr. Strout also carried off the award for the largest display of carnations.

Other exhibitors who were awarded prizes included Littlefield & Wyman of North Abington, Mrs. E. K. Farr of Stoneham, S. G. Goddard of Framingham, Wm. Sim of Cliftondale and A. A. Pembroke of North Beverly.

A. W. Preston, John L. Smith, gard., carried off the silver medal for the finest display of orchids, while the first prize for pansies went to C. T. Beasley of East Milton.

M. W. Farr, of Reading, made a clean sweep of all the prizes for sweet peas, carrying off nine premiums. Penn, the florist, and H. R. Comley won prizes for display of flower baskets, while other exhibitors to whom awards were made included: William Thacher, W. C. Rust and W. N. Craig, all of Brookline; Edward A. Clark of Jamaica Plain, the W. W. Edgar Co. of Waverly.

"Carnation Night" was celebrated at the conclusion of the show. Andrew K. Rogers, the club president, presided and the organization voted to indorse the League of Nations. Brief talks on carnations were given by C. S. Strout of Biddeford, Me.; Ernest Saunders of Lewiston, Me.; George E. Buxton of Nashua, N. H., W. D. Howard, Milford, Mass., and S. J. Goddard of Framingham.

NASSAU COUNTY HORTICULTURAL SOCIETY.

The monthly meeting was held in Pembroke Hall, Glen Cove, on Wednesday, Feb. 12th, with a large attendance. Phillip Lucking of Oyster Bay and Peter Stroyer of Brookville were elected to active membership and R. C. Hallock as an associate member. The judges appointed for the monthly exhibits were Messrs. Wm. Milstead, Chas. Young and Geo. Gilder. The following awards were made: 1 pot of cyclamen, first, and 50 single violets, first, to Robert Jones. It was unanimously agreed that this society go on record as protesting against the Horticultural Import Prohibition and a letter of protest was ordered sent to Senator Calder and Congressman Hicks representing Nassau County. It was decided to hold the annual dinner at the Glen Head Hotel on Wednesday, February 26th, and that the dinner committee—Messrs. Ernest J. Brown, Ernest Westlake and John W. Everitt—be empowered to make all necessary arrangements. An extremely interesting essay was read by John F. Johnson entitled "The Value

CARNATION BERNICE.



Grown by W. D. Howard, Milford, Mass.

of a Scientific Education, written by Arthur Smith. A letter of thanks was ordered sent the author. R. V. Lickman, president; Wm. C. McCollum, secretary, and A. Knight a member of the Islip Horticultural Society, were present and each spoke briefly. Competitions, for next monthly meeting to be held on Wednesday, March 12th, at 7 p. m., are: 1 pot or pan of tulips, 6 heads of celery and 12 sticks of rhubarb.

HARRY GOODBAND, Cor. Sec.

HORTICULTURAL SOCIETY OF NEW YORK

The Horticultural Society of New York will hold an exhibition in the American Museum of Natural History, Central Park West and Seventy-Seventh street, March 28th, 29th and 30th.

The schedule of classes and premiums is as follows:

Plants.

NON-COMMERCIAL GROWERS.

Group of spring flowering plants, 100 sq. ft. arranged for effect, 1st, \$100, 2nd, \$50; group of foliage plants, 100 sq. ft., arranged for effect, 1st, \$100, 2nd, \$50; group of Orchid plants, 50 sq. ft., arranged for effect. Decorative plants permissible, 1st, \$50, 2nd, \$25; Acacia, three plants, 1st, \$12, 2nd, \$6; Acacia, specimen, Amaryllis, twelve plants, Cineraria, six plants, Cyclamen, twelve plants, 1st, \$6, 2nd, \$3; Hydrangea, specimen, Marguerite, specimen, 1st, \$3, 2nd, \$2; Primula malacoides, twelve plants, Primula obconica, twelve plants, Schizanthus, six plants, not over eight inch pots, 1st, \$6, 2nd, \$3; Schizanthus, specimen, 1st, \$3, 2nd, \$2.

COMMERCIAL GROWERS.

Group of spring flowering plants, 150 sq. ft., arranged for effect; Group of Orchid plants, 100 sq. ft., arranged for effect. Decorative plants permissible, 1st, \$100, 2nd, \$50.

Bulbous Plants.

NON-COMMERCIAL GROWERS.

Early Flowering Tulips, six pans, six varieties; Darwin Breeder, or May-flowering Tulips, six pans, six varieties; Narcissus, six pans, six varieties; Lilies, six pots, 1st, \$4, 2nd, \$2.

Cut Flowers.

NON-COMMERCIAL GROWERS.

Roses, 18 Ophelia or any Ophelia sport; Roses, 18 pink; Roses, 18 red; Roses, 18 yellow; Roses, 18 white; Carnations, 25 white; Carnations, 25 flesh pink; Carnations, 25 light pink; Carnations, 25 dark pink; carnations, 25 scarlet; Carnations, 25 crimson; Carnations, 25 variegated; Antirrhinum, 18 spikes; Mignonette, 12 spikes; Sweet Peas, 100 sprays, 1st, \$3, 2nd, \$2 in each class.

COMMERCIAL GROWERS.

Roses, 25 white; Roses, 25 light pink; Roses, 25 dark pink; Roses, 25 red; Roses, 25 yellow; Roses, 25 Ophelia or any Ophelia sport, 1st, \$6, 2nd, \$3; Roses, 25 American Beauty, 1st, \$10, 2nd, \$5; Carnations, 50 white; Carnations, 50 flesh pink; Carnations, 50 light pink; Carnations, 50 dark pink; Carnations, 50 scarlet; Carnations, 50 crimson; Carnations, 50 variegated, 1st, \$5, 2nd, \$3.

At its meeting on Feb. 10, the Southampton (Mass.), Horticultural Society decided to hold its show on July 30-31 and to use part of the proceeds for purchasing and planting trees in honor of the soldiers and sailors from Southampton.

Obituary

Frederick Aigner.

Frederick Aigner, aged 62, superintendent of city parks of Niagara Falls, N. Y., died Tuesday morning, February 11, in Memorial Hospital, Niagara Falls. Mr. Aigner had been gradually declining for several weeks following an operation which he underwent three months ago.

The late Mr. Aigner was born in Oberammergau, Bavaria, Germany. He studied botany in a university there. After graduating from the university he served a term in the Germany army and shortly afterward was engaged in the laying out and planting of the wonderful palm garden at Frankfort-on-the-Main, Germany. Then he went to Africa where he made studies and researches in tropical and other branches of botany. While in Africa Mr. Aigner assisted in the creation of the royal gardens for the Khedive at Alexandria, Egypt. Shortly afterward he came to America and was engaged as a private gardener by John D. Rockefeller, Sr. Mr. Aigner remained in Mr. Rockefeller's employ for several years during which he built the magnificent park which is the setting of the Rockefeller home at Cleveland, Ohio. During this splendid work Mr. Aigner had charge of between 1,500 and 2,000 men for several years.

About 19 years ago Mr. Aigner came to Niagara Falls from Cleveland and was engaged by the late Arthur Schoellkopf to beautify the land surrounding the Hydraulic Power Company plant on the bank of the Gorge here and also his own residence with distinctive gardening effects, and until his death he had been in the employ of the Schoellkopf family, during which service he designed, built and personally attended to the maintaining of Schoellkopf Park, and Gluck Park.

About five years ago under the administration of Mayor William Laughlin Mr. Aigner was appointed by the then park board as the first municipal superintendent of parks in this city and had been continued in this office until his death. Mr. Aigner built and brought to its present state of beauty the New Porter Park in Buffalo avenue here as well as the splendid municipal swimming pool. He also built several small parks for the city. Mr. Aigner is survived by one son Robert Aigner, who recently returned from overseas where he served in the 108th Ammunition Train, 34th Division, A. E. F.

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Comprising many of the finest forms of BRASSO CATTLEYA and BRASSO LAELIA CATTLEYAS, LAELIA CATTLEYAS and CATTLEYAS; CYMBIDIUMS bearing long spikes of flower of great lasting qualities; CYPRIPEDIUMS, choicest large flowered and free flowering types; ODONTODAS, graceful spikes of many new shades of color; ODONTOGLOSSUMS, beautiful large flowered hybrids; SOPHRO CATTLEYAS and SOPHRO LAELIA CATTLEYAS of the quite new red colors, many of which have received highest Awards from the Orchid Societies of Great Britain together with many thousands of WELL KNOWN species and HYBRIDS specially suitable to ensure a good supply of cut flowers throughout the year or for any special season as desired.

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Telephone, Enfield 1.

Cables: Orchids, Enfield, England.

Mrs. Alice Kent.

Mrs. Alice Kent, widow of Otis L. Kent, died early Friday morning, Feb. 14, at her home on North Atkinson street, Newburyport. Subsequent to the death of Mr. Kent in 1915 she conducted the greenhouses of the old firm of Kent & Marsh and also operated two retail stores, one in Amesbury and one down town in Newburyport until poor health made retirement advisable in the spring of 1918. Although a great sufferer, she kept up her interest in things pertaining to floriculture until the last. Funeral services were held Sunday, Feb. 16.

Marius Mutillod.

Marius Mutillod, proprietor of the Exotic Nurseries, Secaucus, N. J., died Feb. 10, after a week's illness, of pneumonia, aged fifty years. He was born in France, and had been connected with the New York trade for over twenty years. His widow survives him.

Mary Belle Henderson.

Mrs. Mary Belle Henderson died in her apartment in the Marie Antoinette Hotel, New York, Feb. 8th. She was the widow of Alfred Henderson, who was connected with the firm of Peter Henderson & Co. She leaves a son, Peter, and three daughters.

Dean Thompson.

A sufferer from insomnia for some time, Dean Thompson, florist, fifty-two years old, shot and killed himself at his home in Ocean Grove, N. J., on Feb. 4th. He leaves a wife and one daughter.

John Maurice Hunt.

John Maurice Hunt, gardener on the estate of Mrs. Theodore Douglas Robinson, Jr., Mohawk, N. Y., passed away Jan. 16, aged 33 years.

Mrs. Mattie McFarland.

Mrs. Mattie McFarland, wife of William P. McFarland, florist, Akron, O., died January 31, aged 60 years.

TAKE UP THE SLACK.

"Let Public Works Take Up the Slack" is the subject of an interesting editorial from a recent number of the Engineering News-Record:

"Each day that labor is unemployed there is an economic loss to the community. Every man not employed is either a public charge or an idle producing unit, and since it is certain that return to a peace basis will take some time, public works should absorb labor as fast as possible, even under conditions which might seem uneconomical on account of high wage scales and high prices of materials. Even if the public pays a greater price for public improvements, it prevents the economic loss due to idle man power. If, to prevent unemployment the Army is demobilized slowly, the public pays for the maintenance of the soldiers. It would be better to demobilize as promptly as the military situation permits, increasing the amount of public work to such an extent as to prevent unemployment. Such a course would mean permanent and substantial returns for the money spent, whereas the maintenance of men in camp after the military necessity ceases is a dead loss."

Private capital will be a little slow in investing and public works should take up the slack during the period of adjustment. Practically every city, county, state and Federal project which was stopped at the outbreak of the war could advantageously be resumed now and help keep the industrial sails full of wind.

Little Ads. That Bring Big Returns

Little Ads. in our Classified Buyers' Directory bring big returns to both advertiser. Anything wanted by florists, gardeners, park and cemetery superintendents, etc., can be sold through this medium.

Don't fail to read over these Ads. in each issue and you may find one or more that will prove profitable to you.

THE SEEDSMEN.

To many persons the finest indoor sport now is the study of seed catalogues in connection with the mental construction of gardens which finally fail to comply with the specifications. One of the first discoveries likely to be made in connection with the catalogues, is that the price of the seedsman's stock is a trifle above that of last year. While this might have been expected the discovery has pained more than one ambitious gardener and yet, the seedsmen are justified and their advance might easily have been greater.

If, for instance, the government had taken over the seed business the industry would have been studied by experts who would have advanced prices anywhere from 10 to 50 per cent. The next step would have been to raise the pay of the employees who were engaged in the business, an act which would require the greater part of the funds brought in by the advance in price. This would have made necessary another advance and, possibly, a ration system in the distribution of seed whereby the gardener would receive two-thirds of his order, with the understanding that the other third would be shipped when all the other gardeners had been supplied, by which time there would have been a further advance in prices.

As it is, the seedsmen have been permitted to manage their own affairs to a certain extent, though they have been affected by the war like all the rest of us, especially as regards a part of their stock. Like the rest of employers they have paid more for labor, and found it scarce through the growing season, and like many other importers, they found it difficult to get certain stock from overseas. Before the war England, Scotland, Germany, Holland, Denmark and Belgium were depended upon to supply seeds of the crops belonging to the Cruciferae family, to say nothing of celery, but these countries have been engaged in other activities than seed growing since 1914 and the seedsmen have been sorely tried through the difficulty of obtaining stock and the various hindrances incident to its shipment.

The fact that fighting is at an end does not affect the supply of seed available for this year's planting, no matter what conditions may prevail in 1920, and the seedsmen are apparently doing as well as any one could expect. When we consider the prices have established and compare them with those fixed in the matter of coal and foodstuffs we have a kindly feeling toward the seedsmen.—*Hartford (Conn.) Courant.*

BEST YOUNG TREES

Little Tree Farms, FRAMINGHAM, MASS.

We have millions of growing **EVERGREEN AND DECIDUOUS TREES** complete in grades and sizes.

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Seedlings and Transplants, Firs, Junipers, Arborvitae, Pines, Spruces, Maples, Ash, Oaks, Lindens, Elms, etc.



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15 Beacon St.
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Boston, Mass.



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Fruit and Ornamental Trees, Shrubs,
Small Fruits, Clematis, Evergreens
and Roses.

Write for Trade List

W. & T. SMITH COMPANY, Geneva, N. Y.

We are subscribers to the Nurserymen's Fund for Market Development

CHRYSANTHEMUM SPECIALISTS

ELMER D. SMITH & CO.

ADRIAN, MICH.

CATALOGUES RECEIVED.

Loechner & Co., New York City.—Seed offer for the wholesale trade only. Includes importations from Italy and elsewhere.

J. J. Wilson Seed Co., Newark, N. J.—Garden book for 1919. A well made up and illustrated seed catalogue by a well equipped firm.

Eastern Nurseries, Holliston, Mass.—General price list of hardy trees, shrubs, vines and herbaceous plants. This list is an interesting one, as it includes quite a few things that are not generally offered in such catalogues.

J. Bolgiano & Son, Batimore, Md.—General seed catalogue for year 1919. Colored covers in which tomatoes of high degree figure prominently. The catalogue is devoted mainly to vegetable and field seeds and is abundantly illustrated.

Stuart Low Co., Bush Hill Park, Enfield, Eng.—Abridged list of orchids. A very interesting and appetizing list for the orchid fancier. Many new varieties and hybrids described briefly, and we have no doubt these descriptions will be enlarged upon to proper degree by Stuart Low Company's esteemed American traveler, Harry A. Barnard, who we understand, is soon to visit this country in the interests of the firm.

The Wholesale Seedsmen's League met at the Hotel Astor, New York, on Feb. 14th, at which prices on the pea and bean harvest for 1919 were discussed. The general impression seems to be that prices for all seeds will be lower next year.

HILL'S EVERGREENS

BEST FOR OVER HALF A CENTURY
Small, medium and large sizes supplied
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THE D. HILL NURSERY CO.

Evergreen Specialists. Largest Growers
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We are subscribers to the Nurserymen's Fund for Market Development

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IN ALL SIZES.

Surplus Quantities at Bargain Prices.

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LEWISTON, MAINE

Specialists in Specimen Stock for Landscape Work

Hardy Rhododendrons, Azaleas, Boxwoods, Hollies and a Complete Line of Coniferous Evergreens.

WRITE FOR PRICES

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EUREKA CALIFORNIA

CHARLES H. TOTTY

CHRYSANTHEMUMS
MADISON, N. J.

THE National Nurseryman

The oldest and best established journal for nurserymen. Circulation among the trade only. Published monthly. Subscription price \$1.50 per year. Foreign subscriptions, \$2.00 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
HATBORO, PA.

SEED TRADE

European Seed Situation

In order that this country may have more accurate and reliable information concerning clover, grass, and vegetable seed stocks and requirements in various European countries, the United States Department of Agriculture has sent as its representatives to Europe Dr. A. J. Pieters, of the Forage Crop Investigations section of the Bureau of Plant Industry, and Mr. W. A. Wheeler, in charge of the Seed Marketing Investigations and the Seed Reporting Service of the Bureau of Markets. These men sailed for Europe on December 30 and contemplate visiting Great Britain, France, Belgium, Italy, Holland, and Denmark. It is thought that they will be able to cable information that will be of much immediate value in helping the Department of Agriculture, as well as the War Trade Board and other governmental agencies, to shape their policies with reference to exportation of certain kinds of seeds and to give the seed trade a better idea of the supply, demand, and possible future requirements of field and vegetable seeds.

From information available at this time, it would seem that the supplies of a few kinds of vegetable and field seeds in this country will have to be conserved carefully in order that the production of crops from them may continue to such an extent as to disturb the agriculture of the United States as little as possible. On the other hand, it may be necessary or desirable for the United States to run some risk of a shortage of certain kinds of seeds in order to meet the dire needs of our associates in the war for these particular seeds. To what extent Great Britain, France, Belgium, and Italy need various kinds of seeds is one of the questions on which Dr. Pieters, forage crop expert, and Mr. Wheeler, seed trade expert, will endeavor to obtain data. Furthermore, Holland, Denmark, and other neutral countries may be ready markets for some of our seeds and may have a surplus of other kinds to offer us, all of which information, if it is possible to obtain it, should be available to the growers and dealers of seeds in the United States.

Early during the war it was apparent, with seed production in most European countries at a standstill, and with almost insurmountable ocean transportation difficulties, that pro-

Burpee's Seeds Grow

BURPEE'S SWEET PEAS

Finest Re-selected Stocks Grown at Our Floradale Farm
The California Home of Sweet Peas.

Are there any vacant benches in your houses? Early-Flowering Sweet Peas is the logical cut flower crop to grow. Sown now the plants will bloom from late April on.

	pkt.	1/2 oz.	oz.	1/4 lb	lb
FORDHOOK PINK AND WHITE. The favorite Blanche Ferry color.....		\$0.10	\$0.40	\$0.70	\$2.10 \$ 7.00
BURPEE'S IMPROVED SNOWSTORM. The best early pure white.....	.15	1.00	1.75	5.25	
BURPEE'S LAVENDER KING. The best early lavender.....	.10	.60	1.00	3.00	10.00
BURPEE'S ENCHANTRESS. Fine early rose-pink self.....	.10	.60	1.00	3.00	10.00
BURPEE'S EARLY DAYBREAK. A splendid cream rose-pink.....	.10	.80	1.50	4.50	
BURPEE'S EARLY KING. Rich bright crimson.....	.10	.60	1.00	3.00	10.00
BURPEE'S EARLY BLUE BIRD. Beautiful clear blue.....	.10	.60	1.00	3.00	10.00
BURPEE'S EARLY SPLENDOR. The best deep rose self.....	.10	.80	1.50	4.50	
BURPEE'S SWEET BRIAR. A charming early light pink.....	.10	.60	1.00	3.00	10.00
BURPEE'S PRIMROSE BEAUTY. Deep primrose flushed rose.....	.15	1.00	1.75		
BURPEE'S EARLY MAUVE BEAUTY. A large rosy-mauve.....	.10	.40	.70	2.10	7.00
BURPEE'S EARLY ZEPHYR. A fine clear silvery-blue self.....	.10	.60	1.00	3.00	10.00

The above are only a few of the many splendid varieties of our own raising we have to offer. See our catalog for full particulars.

Burpee's Summer-Flowering Spencer Sweet Peas

Sow now under glass to plant out in April for late spring and summer blooming. A few leaders recommended for cutting:

	pkt.	.oz.	1/4 lb.	lb.
BLANCHE FERRY SPENCER. The popular pink and white.....	\$0.10	\$0.30	\$0.90	\$3.00
MARGARET MADISON. Pine blue.....	.10	.35	1.10	3.50
EDITH TAYLOR. Soft salmon rose self.....	.10	.35	1.00	3.25
ILLUMINATOR. Lovely salmon cerise.....	.10	.35	1.10	3.50
MARGARET ATLEE. Rich rose-pink.....	.10	.35	1.10	3.50
HERCULES. The largest deep pink.....	.10	.35	1.00	3.25
ORCHID. The best lavender.....	.10	.45	1.40	4.75
ELFRIDA PEARSON. The largest light pink.....	.10	.25	.80	2.60
THOMAS STEVENSON. Shining orange.....	.10	.25	.75	2.50
IRISH BELLE. Charming lilac self.....	.10	.25	.75	2.50
KING WHITE. The best pure white.....	.10	.35	1.10	3.50

See Catalog for full list of varieties.

For All that is Best in Vegetable and Flower Seeds

Write for Burpee's Annual — The Leading American Seed Catalog.
Also ask for our Special Blue List of Wholesale Prices.

W. Atlee Burpee Co.,
Seed Growers Philadelphia.

duction of those kinds of seeds formerly imported from Europe in large quantities must be stimulated in this country. The seed growers in the United States responded to such an extent that instead of importers of certain kinds of field and vegetable seeds, dealers in this country became exporters. There appears to be a surplus in this country of some kinds of seeds, and our seed growers are at a loss to know whether to maintain the acreage already planted or to increase or decrease the acreage to be planted this year. The answers to these questions can not be found from a study of conditions in the United States alone, and whatever information is available here must be supplemented by information from other countries.

The great war has disturbed the seed business of the world to such an extent that normal agencies, which in the past have been able to cope with existing conditions, are unable to function properly at this time. The machinery of the seed trade in the continental European countries has been so disrupted as to make the timely interchange of seeds, needed for planting next spring, between those countries and the United States very difficult. The seed trade of the United States has felt that its resources in bringing about an effective interchange have practically been exhausted and that the United States Department of Agriculture can be of great assistance during the period of reconstruction by having its representatives study first-hand seed production and marketing problems in Europe.

Important Seed Legislation Pending.

Gentlemen—Since writing you on the third advising you of Assemblyman Witter's proposed seed bill, No. 185, Int. 183; there has been another bill offered by Honorable Adon P. Brown, known as Senate Bill 309, "An Act to amend the Agricultural law, in relation to agricultural seeds and the sale thereof." Senator Brown advises that there will be a joint hearing before the Senate and Assembly Committees on Agriculture on this bill Feb. 26th, at Albany, New York. It is very probable that Assemblyman Witter's Seed Bill will come up for a hearing at the same time.

It is important that there is a good representation of New York State Seedsmen at the hearing, as these bills are of the utmost importance to all seed dealers.

Yours very truly,

MARSHALL H. DURYEA,
New York State Correspondent American Seed Trade Association.

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GREENHOUSE SAVED SEED

These stocks are great improvements on the Beauty of Nice Strain. They bloom in four to five months from sowing and under good cultivation, (disbudded), attain height of 2½ to 3 feet, producing a gigantic flower spike bearing beautiful large double flowers, the actual seed offered below has produced as much as 85% doubles.

LENOX PINK

PRINCESS ALICE, White

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BEAUTY OF NICE
(Improved)

CANARY YELLOW

LENOX MAUVE

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ALMOND BLOSSOM,
blush

AUGUSTA VICTORIA,
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Each color separate. Tr. pkt. 25c.; ⅓ oz. \$1.25

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PEAS, BEANS, CORN AND VEGETABLE SEEDS

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Glad to quote for present delivery or on growing contract for crop of 1919.

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Embargo on Red Clover Seed Exports Removed.

The temporary embargo on red clover seed exports since early in December has been removed and licenses are being issued as heretofore. The maximum quantities, aggregating 5,000,000 pounds, that will be allowed to be exported to allied and northern neutral countries are as follows:

France, Italy, Belgium, and the United Kingdom (if any is needed in excess of the 3,000,000 pounds already granted) 3,000,000 pounds. Denmark 1,400,000 pounds; Sweden 300,000

pounds; Netherlands 150,000 pounds, and Norway 150,000 pounds.

Some elasticity is to be allowed in allocating the seed so that if one country does not need all of the seed that has been allotted to it, the allotment to some other country may be increased accordingly.

WITLOOF CHICORY ROOTS to grow FRENCH ENDIVE

I have 10,000 Chicory roots which I will send by mail postpaid for \$2.25 per 100 or \$20.00 per 1000. Also forcing Asparagus roots.

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Of Interest to Retail Florists

DO GOOD BY STEALTH.

You know the rest—"and blush to find it fame." Well, I have talked with two of the leading retailers of Philadelphia who attended the last meeting of the Florists' Club, and they were both much pleased that Max Schling of N. Y. City had confirmed their views on that point, do good by stealth. Says one whenever there's a glut in the market I send my surplus to the hospitals with a letter to the superintendent asking him to be sure and not mention who sent them. Says the other prominent retailer, righto! I've been doing the same thing for years and sending the same kind of a letter but how did you get on to it. The innocent bystander asked why the letter. You ought to have seen the look of contempt on both their faces. Why you poor boob don't you see that if you ask them to keep it a secret its all over the lot inside of no time at all. Why you can't stop them from talking about it after you've told them not to. The innocent bystander took his hat off to them both and opined that there were many ways of saying it with flowers. But he was unable to see any blushes on either of the immaculate well groomed features of these prosperous well to do retailers who had been doing all this beautiful charity work for so many years. In fact if the expression can be described it looked more like a smirk than anything else. All of which goes to show that the flower trade is no trade for a simple honest country bred boy but an arena for sleight of hand thought telepathy wireless Christian Science perpetual motion of Golconda Machiaevelli and now you see it and now you don't. In fact if we were to dare to say it, the real meaning of do good by stealth to many of the successful ones today is Do Them—Good. Do it any old way but do them—Good! But no—we take that all back and we know in our heart that they are all very good boys and straight as a string and we have to make our obeisances to them and admire their cute little ways. The sweet little innocents! Long life to them!!

G. C. WATSON.

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Boston—F. G. Sealey of Muller-Sealey Co., New York City; Dr. B. T. Galloway, Washington, D. C.; H. S. De Forest, New York City.

Rochester, N. Y.—Edward Sick of Canandaigua, N. Y.; H. S. Baker of Warsaw, N. Y.; Joseph Adler, of Adler Bros., New York; Sam Entrecht, New York.

Philadelphia—J. Howard Thompson, Kennett Square, Pa.; W. H. Fox, Parkerford, Pa.; F. D. Dottra, Phoenixville, Pa.; James Higgins, A. L. Randall Co., Chicago, Ill.; C. B. Coe, D. M. Ferry & Co., Detroit, Mich.; Thomas Roland, Nahant, Mass

Chicago—Burton W. Kribs, Battle Creek, Mich.; Mrs. Thornquist, Benton Harbor, Mich.; E. R. Munk, of the Munk Floral Co., Columbus, O.; Martin Reukauf, rep. Bayersdorfer & Co., Phila., Pa.; Sam Seligman; Mrs. F. Speckerman and daughter of the Sandwich Greenhouses, Sandwich, Ill.; Ed. Denker, St. Charles, Mo.; Sidney Beard, Detroit, Mich.; Frank Gorly of Grimm & Gorly, St. Louis, Mo.

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New York, N. Y.—Herman Branch, florist; liabilities, \$4,813, no assets.

Quality and Reliability

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territory.

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Asparagus Plumosus Nanus

New Crop, Greenhouse Grown Seed.
Per 100, 45c.; per 1000, \$3.50.

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Home grown. Saved by florists who know their
business. Ready now.

GIGANTEA ROSEA. Seed saved from plants with large
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WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Feb. 20		ST. LOUIS Feb. 17		PHILA. Feb. 17	
Roses						
Am Beauty, Special.....	75.00	to 100.00	50.00	to 60.00	.....	to 100.00
" " Fancy and Extra.....	50.00	to 75.00	30.00	to 40.00	60.00	to 75.00
" " No. 1 and culls.....	30.00	to 50.00	15.00	to 20.00	30.00	to 40.00
Russell.....	15.00	to 35.00	15.00	to 25.00	25.00	to 40.00
Hadley.....	15.00	to 35.00	5.00	to 10.00	10.00	to 40.00
Mock, Key.....	8.00	to 20.00	5.00	to 15.00	.....	to 25.00
Arenberg, Hoosier Beauty.....	8.00	to 20.00	10.00	to 15.00	10.00	to 25.00
Ward, Hillingdon.....	8.00	to 20.00	6.00	to 10.00	.....	to 25.00
Killarney, Key, Taft.....	8.00	to 20.00	10.00	to 20.00	10.00	to 25.00
Ophelia, Sunburst.....	8.00	to 20.00	10.00	to 25.00	10.00	to 25.00
Carnations	4.00	to 6.00	4.00	to 8.00	6.00	to 1.00
Cattleyas	50.00	to 75.00	60.00	to 75.00	40.00	to 50.00
Lilies, Longiflorum.....	10.00	to 25.00	20.00	to 25.00	20.00	to 25.00
Lilies, Speciosum.....	8.00	to 20.00	.....	.....	6.00	to 8.00
Lily of the Valley.....	8.00	to 12.00	8.00	to 10.00	.....	.....
Snapdragon.....	8.00	to 12.00	8.00	to 10.00	15.00	to 20.00
Violets.....	.50	to 1.00	.50	to 1.00	1.00	to 1.50
Narcissus.....	3.00	to 4.00	2.00	to 3.00	6.00	to 8.00
Calendula.....	2.00	to 4.00	2.00	to 4.00	8.00	to 10.00
Sweet Peas.....	1.00	to 3.00	1.00	to 2.00	1.50	to 3.00
Gardenias.....	.....	to 100.00	.....	.....	50.00	to 60.00
Adiantum.....	1.00	to 1.50	.....	1.50	1.50	to 2.00
Smilax.....	.....	to 25.00	.....	25.00	.....	to 25.00
Asparagus Plumosus, & Spreng. (100 Bchs.).....	35.00	to 50.00	50.00	to 150.00	50.00	to 60.00

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ROSES, CARNATIONS

AND ALL OTHER SEASONABLE STOCK

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Flower Market Reports

Business has been excellent before and since Valentine's day with a general buoyancy all along the line. Roses are of fine quality, and while large shipments of carnations are received, prices hold firm. Violets move slowly but sweet peas clean up easily. Lilies are not over abundant and lily of the valley is also scarce but of improved quality.

The market felt the effect of the biggest St. Valentine's Day in its history, during the past week. The demand for stock, especially for violets, orchids, freesias and small roses, was greater than could be met, and customers were glad to take any available flowers to fill out their supply. Out of town orders were cut and the last minute customers were doomed to disappointment. The long stemmed roses and carnations were not so much desired for Valentine offerings, but the usual demand for funeral flowers helped to clean the market completely. The week end found prices firm and on roses and carnations a little in advance of those earlier in the week.

A brisk demand slightly superior to receipts of stock mirrors well the condition of the market. St. Valentine's trade was fully up to expectations, reports from both wholesale and retail sources agreeing on this point. The supply was liberal, excepting roses, more of which could have been sold. Violets from New York arrived in good condition, although some shipments were a day late but demand was not up to standard. Bulbous stock was abundant, except tulips. Carnations were in good supply and marketed at good prices. Plants figured largely in the retail sales but supply inadequate. Primroses were the leaders, with cyclamens, heathers, hyacinths and a few azaleas and various ferns. Lilies are still scarce. A number of the smaller miscellaneous flowers are to be had such as daisies, forgetmenots, calendulas and mignonettes. Lily of the valley is very scarce and the supply of cattleyas is erratic. Asparagus is weak in supply and adiantum is scarce.

Conditions are but very little different from last week. The tendency of prices is downward owing to a lighter demand. The limited supply of Beauties keeps the price on them firm but the general run of roses average lower. Carnations are in

The Chicago Flower Growers Association

WHOLESALE GROWERS of CUT FLOWERS and PLANTS

L. D. Phone Randolph 631

182 N. Wabash Avenue, CHICAGO

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Feb. 17	CHICAGO Feb. 17	BUFFALO Feb. 17	PITTSBURG Feb. 17
Roses				
Am. Beauty, Special.....	60.00 to 73.00	75.00 to 100.00	60.00 to 75.00	50.00 to 60.00
" " Fancy and Extra.....	35.00 to 50.00	50.00 to 60.00	25.00 to 50.00	25.00 to 40.00
" " No. 1 and culls.....	10.00 to 25.00	15.00 to 35.00	5.00 to 20.00	0.00 to 30.00
Russell.....	15.00 to 30.00	10.00 to 40.00	8.00 to 30.00	10.00 to 25.00
Hadley.....	15.00 to 25.00	15.00 to 25.00	8.00 to 15.00	..... to
Euler, Mock.....	15.00 to 25.00	15.00 to 25.00	6.00 to 10.00	..... to
Arenberg, Hoosier Beauty.....	10.00 to 20.00	8.00 to 30.00	6.00 to 10.00	..... to
Ward, Hillingdon.....	8.00 to 18.00	6.00 to 18.00	6.00 to 8.00	6.00 to 15.00
Killarney, Key, Taft.....	8.00 to 15.00	8.00 to 20.00	6.00 to 15.00	6.00 to 15.00
Ophelia, Sunburst.....	8.00 to 25.00	8.00 to 20.00	6.00 to 15.00	8.00 to 25.00
Carnations	6.00 to 8.00	3.00 to 8.00	3.00 to 5.00	4.00 to 6.00
Cattleyas.....	..... to 25.00	25.00 to 50.00	60.00 to 75.00	50.00 to 60.00
Lilies, Longiflorum.....	..... to 20.00	18.00 to 30.00	15.00 to 20.00	20.00 to 25.00
Lilies, Speciosum.....	..... to .....	..... to	8.00 to 10.00	..... to
Lily of the Valley.....	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00
Snapdragon.....	12.00 to 15.00	10.00 to 20.00	8.00 to 25.00	6.00 to 8.00
Violets.....	1.00 to 2.00	1.00 to 1.50	1.00 to 1.50	.75 to 1.25
Narcissus.....	3.00 to 6.00	4.00 to 8.00	3.00 to 4.00	..... to
Calendula.....	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00
Sweet Peas.....	1.00 to 3.00	2.00 to 4.00	2.00 to 4.00	1.00 to 3.00
Gardenias.....	..... to	50.00 to 75.00	20.00 to 25.00	..... to
Adiantum.....	1.00 to 1.50	1.25 to 2.00	1.00 to 1.50	1.50 to 2.00
Smilax.....	..... to 25.00	25.00 to 30.00	15.00 to 20.00	..... to 20.00
Asparagus Plu. & Spren. (100 Bhs.)	35.00 to 50.00	50.00 to 75.00	35.00 to 50.00	30.00 to 60.00

somewhat lighter supply with small price changes. There are few large flowers in the market but an increasing number of tulips and narcissus, the quotations on which hold up well. Lily of the valley is plentiful and cheaper than most anything else. There is no surplus of good cattleyas and gardenias. Calendulas are going slow. Asparagus and smilax are both in good demand.

Roses continue PHILADELPHIA on the scarce side and are still bringing high prices with American Beauty heading the list around the hundred mark. A good many of the rose men are making cuttings lately and the shorts will probably predominate for some time to come. Carnations are more plentiful and prices have dropped considerably. Miscellaneous stock like sweet peas, daffodils, freesias, paper whites, snapdragon also very much more in evidence and at more moderate figures. Lots of violets. Cattleya trianae still the leader in the orchid market although a few nice Schroederae are to be seen around. Lilies and callas are in smaller demand and are going a bit slow.

The latter half of ROCHESTER this week has been a decided boost in business. Stock is more plentiful and prices a trifle easier. Long stemmed stock is fairly abundant and enough to go around. A decided shortage of lilies is noticed. Violets have been in good demand. Carnations are

in abundance and some good snapdragon sell well. Calendulas are popular and are on the short side.

Valentine business influenced the market greatly during the entire week and stiff prices prevailed especially in carnations and roses. Violets held well but shipments from California caused a big drop on the afternoon of the 14th. Sweet peas were in good demand and cattleyas and bulbous stock were in good supply. All greens sold well.

Horticultural Books

For Sale by

HORTICULTURE PUBLISHING CO.

Chrysanthemum Manual. Elmer D Smith.....	90.50
The Chrysanthemum. Herrington.....	.50
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Commercial Rose Culture. Holmes.....	1.50
Violet Culture. Galloway.....	1.50
Greenhouse Construction. Taft.....	1.50
Sweet Peas up to Date. Kerr.....	1.50
Plant Propagation, Greenhouse and Nursery Practice. Kains.....	1.50
Plant Pruning. Kains.....	1.50
Book of Garden Plans. Hamblin.....	2.00
Landscape Design. Hubbard.....	6.00
The Art of Outdoor Rose Growing. Thomas.....	6.00
The Home Vegetable Garden. Krueh.....	1.00
Vegetable Gardening. R. L. Watts.....	1.75
Parsons on The Rose.....	1.00
Principles of Floriculture. M. A. White.....	1.75
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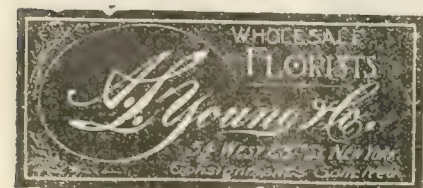
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MAURICE L. GLASS, Treasurer

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Part of Week ending Feb. 16 1918		First Part of Week beginning Feb. 18 1918	
American Beauty, Special	75.00	to 125.00	75.00	to 125.00
" " Fancy and Extra	25.00	to 75.00	25.00	to 75.00
" " No. 1 and culls	5.00	to 20.00	5.00	to 20.00
Russell	0.00	to 30.00	0.00	to 30.00
Hadley	6.00	to 60.00	0.00	to 60.00
Euler, Mock, Key	6.00	to 30.00	0.00	to 30.00
Arentberg, Hoosier Beauty	5.00	to 20.00	5.00	to 20.00
Ward, Hillingdon	4.00	to 12.00	4.00	to 12.00
Killarney, Taft	4.00	to 10.00	4.00	to 10.00
Ophelia, Sunburst	5.00	to 20.00	5.00	to 20.00
Carnations	2.00	to 5.00	2.00	to 6.00

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For sale by dealers.

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Local and General News

CHICAGO.

Chas. McKellar was called to Greenfield, O., last Thursday by the death of Theo. Miller, a brother-in-law.

Negotiations are under way for the sale of one of the best modern ranges of greenhouses just outside of Chicago. It is expected that the papers will be signed within a few days. A city sales room will be included in the transfer.

Chas. H. Fisk, one of Chicago's best known retail florists, had the misfortune to make a misstep while delivering a plant, and fell, breaking his nose and badly injuring one of his hands. Mr. Fisk has the sympathy of the trade.

S. S. Cohen, for several years in the office of Poehlmann Bros., writes that he has been making good use of a furlough by seeing some of the wonderful country over there. After a short stop in Italy he expects to return home.

Zech & Mann report a very good trade for St. Valentine's Day, the only thing to regret being the fact that stock was hardly sufficient to supply all their customers. Some of the best spring flowers the market affords are sent in here by their growers.

The Central Bowling Team, made up of florists, took part in the Aurora Tournament Saturday evening, Feb. 15th, winning the honors three to two. The scores averaged as follows: Wm. Lorman, 495; W. Koopman, 482; P. Olsem, 534; Wm. Wolf, 536; E. Munk, 523.

Miss Edna Frauenfelder, who since her father's death recently has become the head of one of the largest retail flower stores outside of the loop, reports a steady demand for flowers, mostly for funerals. Her store also did a large business on St. Valentine's Day.

Tom Fogarty resumed his work at Fleischman's today after an absence of six weeks, caused by blood poisoning, as the result of a scratch from a wire in making up a floral piece. Mr. Fogarty's condition was considered very

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NEW YORK

TELEPHONES
Farragut 167 and 5885

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

Cattleyas.....	15.00 to 60.00
Lilies, Longiflorum.....	12.00 to 15.00
Lilies, Speciosum.....	10.00 to 12.00
Lily of the Valley.....	2.00 to 6.00
Snape dragon.....	8.00 to 25.00
Violets.....	.50 to .75
Narcissus.....	4.00 to 5.00
Calendula.....	3.00 to 6.00
Sweet Peas.....	1.00 to 3.00
Gardenias.....	40.00 to 75.00
Adiantum.....	.50 to 1.00
Smilax.....	12.00 to 20.00
Asparagus Plumosus, & Spreng (100 bunches).....	20.00 to 35.00

Last Part of Week ending Feb. 16 1918	First Part of Week beginning Feb. 18 1918
15.00 to 60.00	15.00 to 60.00
12.00 to 15.00	12.00 to 15.00
10.00 to 12.00	10.00 to 12.00
2.00 to 6.00	2.00 to 6.00
8.00 to 25.00	8.00 to 25.00
.50 to .75	.50 to .75
4.00 to 5.00	4.00 to 5.00
3.00 to 6.00	3.00 to 6.00
1.00 to 3.00	1.00 to 3.00
40.00 to 75.00	40.00 to 75.00
.50 to 1.00	.50 to 1.00
12.00 to 20.00	12.00 to 20.00
20.00 to 35.00	20.00 to 35.00

serious at one time and his friends are all glad of his recovery. To make matters worse his family all had the influenza at this time.

A report from the postmaster printed in the daily papers concerning St. Valentine's Day is of interest to the florists. He states that the quantity of valentines sent through the mails was diminished ninety per cent. this year owing to the increased popularity of flowers and candy as Cupid's offerings.

The part that the advertising campaign played in making St. Valentine's Day the success that it was, is by no means a matter of one opinion, but the majority of the trade think some credit is due to it. Those thinking otherwise say the real test will come when there is a glut of stock and not as now when there is a shortage. On one point all are agreed: the trade in all branches, wholesalers, growers and retailers, in cut flowers and in plants had the largest trade for St. Valentine's Day that has ever been experienced here, and that in spite of the two preceding days being rainy ones.

The Foley Greenhouse Manfg. Co. is receiving many inquiries from those in the trade who are feeling the need of increasing their growing space. The very satisfactory prices flowers are bringing this season is sure to result in new ranges and additions to old ones. Philip Foley, president of the company, is wearing a smile these days, for he has his two sons back from the service and ready for their part in the work again. As soon as

the State-Lake building is completed, the Foley Greenhouses Manfg. Co. will open a down-town office in connection with their factory at 3260 W. 31st St.

Peter Pearson's determined efforts to produce bulbs that would be of commercial value have been crowned with success, and the flowers he is now bringing into the market are bringing the top prices. This is the third year that Mr. Pearson has been growing bulbs at 5734 Gunnison avenue, and now produces them in quantity. His Darwin tulips are the finest coming into this market.

ROCHESTER, N. Y.

George Case, who was recently honorably discharged from the U. S. Army will take his old position with James Vick & Sons.

This week the florists windows have made special features of both the Auto Show and St. Valentine's Day. Good business is reported to have come from that form of advertising.

BOSTON.

Richard Rothe, of Glenside, Pa., will give an illustrated lecture on Rock Gardens before the Chestnut Hill Garden Society, Boston, Mass., on Thursday, Feb. 27th.

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ST. LOUIS.

The florists' masked ball and entertainment will take place March 4th at Westminster Hall.

A meeting of the growers was held Wednesday evening, Feb. 12. Insurance and publicity were the principal topics for discussion.

NEWS NOTES.

Staten Island, N. Y.—Nanse & Oech-sit, growers, of Woodrow, have dissolved partnership, and the business in the future will be conducted by R. F. Nanse.

Buffalo, N. Y.—The Queen City Seed & Nursery Co. will open its new store there on March 1, but already is receiving orders and inquiries through the mail for flower, field and vegetable seeds.

Sheridan, N. Y.—The greenhouses of Gilray Brothers were damaged to extent of about \$2,000 by fire Thursday afternoon, February 13. The fire truck with several firemen from Fredonia, N. Y., made a record run to Sheridan and assisted in saving a part of the plant. An overheated stove caused the fire. The loss is partly covered by insurance.

Yonkers, N. Y.—Daniel Maresco has purchased the nursery and greenhouses of Frank Knapper, 436 Bellevue avenue.

CLUB AND SOCIETY NOTES.

At the meeting of the Pittsburgh Florists' Club held Feb. 4th, the following officers were elected: President, Neil McCallum; vice-president, E. C. Reinemann; secretary, Carl Becherer; treasurer, W. A. Clarke; trustees, R. H. Semple, P. S. Randolph and A. Frishkorn.

A meeting of the St. Louis Retail Florists' Association was held Monday evening, Feb. 10th, at the Knights of Columbus Hall. The proposed new proposition of the National Publicity Society was discussed and officers for the ensuing year were nominated as follows: President, F. C. Weber, Jr., Theo. Miller; vice-president, A. Meyer, W. H. Kruse; secretary, Oscar Ruf, Fred Herman; treasurer, A. Hoffman.

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New Haven, Ct.—Chas. Conte & Co., one house.

Albany, N. Y.—Geo. Naengast 806 Washington avenue, one house.

Morau, Wash.—H. L. Olsem, one house.

Worcester Mass.—The Quarry Floral Co., 877 Main St., one house, office and boiler house.

Newburyport, Mass.—J. J. Comley, one house.

SWEET PEAS

Just Arrived, crop 1918 winter flowering **SWEET PEAS**, New Zealand grown, the large flowering waved or Spencer type. We have been very fortunate to secure the entire crop of one of the best growers in New Zealand. New Zealand grown seed has always produced the earliest and best blooms, and seed started in August will produce flowers from Thanksgiving until March; requiring a low temperature, these make an ideal crop for the Florist this year. Scarlet, always a good seller. Finest Mixture, all the best colors. Pink and White, Blanche Ferry type. Yarrowa (true), bright rose pink with light wings. Write for further particulars.
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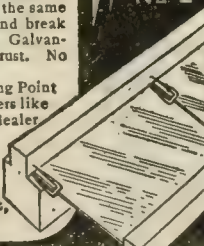
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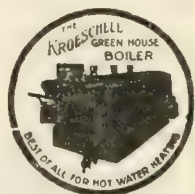
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Vol. XXIX

MARCH 1, 1919

No. 9

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LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.215	Chicago Flower Growers Asso.211	Graham & Son, A.209	Kottmiller208	Pulverized Manure Co.214	Smith & Feters Co.209
Allen, J. K. ....213	Childs, John Lewis .....194	Grakelow, Chas. H. ....209	Lager & Hurrell .....196	Randalls Flower Shop .....209	Smyth, Wm. J. ....209
American Bulb Co. ....194	Clarke, D. Sons .....208	Grey & Co., T. J. ....194	Lemon Oil Co. ....214	Reed & Keller .....212	Stearns Lumber Co., A. T. ....215
American Forestry Co. ....204	Coan, J. J. ....213	Gude Bros. Co. ....208	Liggit, C. U. ....195	Reidel & Meyer .....212	Stump, G. E. M. ....208
Anderson, S. A. ....209	Cooke, Geo. H. ....208		Low Co., Stuart. ....202	Reid, Edw. ....210	Stump & Wal-ter .....194
Aphine Mfg. Co. ....214	Conard & Jones. ....204			Renter, L. J. Co. ....196	
	Cowee, W. J. ....212	Hail Asso. ....214	McHutchison Co. ....207	Rice & Co., Je-rome B. ....207	Thorburn, J. M. & Co. ....194
Barrows, H. H. ....196	Craig, Co., Robt. ....195	Hammond Paint & Slug Shot Works .....214-215	Marshall, W. E. & Co. ....194	Robinson, Henry M. Co. ....212	Totty, Chas. H. ....204
Bayersdorfer, H. Co. ....210	Danker .....208	Hart, Geo. B. ....210	Maule, Wm. Henry .....207	Robinson, H. M. & Co. ....210	Tracy, B. Ham-mond .....195
Bay State Nurseries .....196	Dards .....208	Hart & Vick. ....204-207	McKenzie, John. ....209	Roehrs, J. Co. ....196	United Cut Flow-er Co. ....212
Bobbink & Atkins .....195	Dreer, H. A. ....196, 214-215	Heistad, H. ....196	Michell, H. F. Co. ....194	Roland, Thomas. ....209	
Boddington Co., Inc., A. T. ....205	Dunlop, John H. ....209	Henderson & Co., A. ....210	Michigan Cut Flower Ex. ....210	Rosery, The. ....208	Vincent, R., Jr., & Sons Co. ....193
Bolzano & Son. ....194	Dysart, R. ....212	Hess & Swoboda. ....209	Millang, Chas. ....213		Wants, For Sale, etc. ....203
Boston Floral Supply Co. ....216	Edwards Folding Box Co. ....210	Hews & Co., A. H. ....203	Muller-Sealey Co. ....195	Schwake, Chas. Co. ....195	Warburton .....209
Breck, J. & Sons. ....194	Elm City Nurseries .....196	Hill Co., E. G. ....210	Murray, Samuel. ....208	Sekenger, Adam. ....208	Weber, F. C. ....209
Breck - Robinson Co. ....195	Esler, J. G. ....214	Hill, D. Nursery Co. ....204		Sheridan, W. F. ....212	Weiss, Herman. ....212
Breitmeyers, J. Sons .....208	Farquhar, R. & J. Co. ....194	Irwin, R. J. ....194	National Nurseryman .....201	Siebrecht, Geo. C. ....212	Wilson .....208
Budlong, J. A. ....210	Fengar, E. W. ....195	Johnston Bros. ....208	Nicotine Mfg. Co. ....215	Siggers & Sig-gers .....214	Wood Bros. ....209
Burnyard, A. T. ....208	Ford, M. C. ....212	Kasting, W. F. Co. ....210	Niessen, Leo Co. ....210	Skidelsky, S. S. & Co. ....194	Woodruff, S. D. & Sons. ....194
Burnett Bros. ....194	Ford, W. P. ....212	Kelway & Son. ....194		Smith, Elmer D. & Co. ....204	
Burpee, W. A. & Co. ....194-206	Fottler, Fiske, Rawson Co. ....207	Kervan Co. ....212	Palmer, W. J. & Son .....209	Smith, P. J. ....212	Young, A. L. ....212
	Froment, H. E. ....212	Knoble Bros. ....209	Park Floral Co. ....209	Smith, W. & T. Nursery Co. ....204	Young, John .....212
Carter's Tested Seeds, Inc. ....207	Galvin, Thos. F. ....209	Kroeschell Bros. ....215	Parselsky Bros. ....214	Smith, The Flor-ist .....209	Young & Nugent. ....208
	Gasser Co., J. M.209	Kuebler, W. H.212	Penn the Florist.208		Zech & Mann.210
			Pennock, S. S. Co.193		
			Pierce Co., F. O.214		
			Pierson, A. N.193		
			Pierson, F. R.193		

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THE FLORICULTURE OUTLOOK FOR 1919

A Paper Read by S. S. Pennock before the New York Federation of Horticultural Societies and Floral Clubs at Cornell University, Ithaca, N. Y.

The subject assigned to me on this auspicious occasion, namely, "The Outlook for Floriculture in 1919," is a pleasing one to me for more than one reason. In the first place, as you are no doubt aware, floriculture has been my business from boyhood but it has been more than that to me—it has been my pleasure also—and my spare hours have mostly been spent in the delightful company of my roses and other denizens of my garden, and my next best delight to communing with my flowers is to talk about them to my friends.

Another reason why this subject is a pleasing one to me at this time is because the world has been passing through such a cataclysm the past five years that mankind had but little thought to spare for the beautiful in life. But now that the dark cloud is passing and the sunshine is beginning to glimmer through, once more, the outlook is so much improved that one can discourse with a clear conscience on the subject of floriculture. We may even have a spray of apple blossoms on the breakfast table in 1919—a thing taboo during the war. The idea back of the taboo was, of course, an economic one—namely, that the apples were the important thing, and that food for the body was more desirable than a feast for the soul.

Now the indications all along the line in ornamental horticulture—trees, shrubs, flowers, conservatories, landscaping, and the many allied industries appertaining thereto, show signs of awakening, and good judges are of opinion that the year will be the greatest ever experienced, and that the pent up soul of man will rebound from long confinement and go a-gardening once more with redoubled energy. Cabbage has been King but Queen Rosa will now ascend the throne.

In regard to the branch of floriculture in which I am most intimately associated in a business way, that is, the wholesaling of cut flowers, I may say that it has been a long time since we have had more encouraging prospects than the outlook for 1919.

The trade has gone through a great many vicissitudes; labor and coal troubles probably being the florists' most serious troubles. The conditions

have been very materially changed since the signing of the armistice, and everything is getting back to a better businesslike basis. The cost of doing business, though, remains high, and probably will remain high for some time to come. The only thing that will bring prices down very materially would be a panic, and that, of course, we do not want, but we do think the cost of doing business will lessen as the months and years go by, but there will not be any marked decrease for some little time to come, not much of any in 1919.

With the returning of the men who have been in the war, it is bound to bring more business, and more general business, to the florists of this country. These boys will want to be entertained by their relatives and friends, which will mean flowers.

This war condition has brought into the market a new class of buyers; buyers who will soon feel that flowers are not a luxury but a necessity in their homes, and that the home is not complete without a few flowers which give an added touch of joy and pleasure that cannot be brought into the home in any other way, so flowers come to be a necessity and not a luxury.

The Society of American Florists, in launching the publicity campaign last year, some felt it was an inopportune time to conduct such a campaign, but those who had charge of this campaign felt it was one of the best times to get the flower business before the public, and there is no doubt that the campaign has worked a wonderful amount of good, and will make for better results as it progresses.

The thought is for the coming year to raise, instead of \$50,000, \$100,000—just double the publicity as planned for this year. No commodity, if advertised judiciously and regularly, can but be helped in the sales of that commodity by this advertising, continually bringing before the public the slogan which the publicity committee is using, "Say it with flowers," and will be stamped indelibly, I think, in the minds of everyone as other trademarks, such as Cream of Wheat, Uneda Biscuit, and other trademarks that we are all so familiar with.

"Say it with flowers" means so much, and it is a wonderful slogan for each and every florist to use in his local advertising. This local advertising coupled with the national advertising cannot help but benefit every live and up-to-date florist.

Some of our more optimistic friends in the flower business feel that the

flower business today is only in its infancy, and in a few years with this publicity campaign in good working order will bring the business up to a point undreamt of.

The publicity campaign is very ably managed, and there is no question that the money will be judiciously spent, and spent where it will do the most and the best good.

This publicity campaign, and the business generally getting on a better and more sound business basis, is going to mean that we are going to have not the old-fashioned ways of doing business, not a slipshod way, but up-to-date business methods right straight through, both in the growing, wholesale and retail ends.

Each florist will realize that it is absolutely essential and necessary that he keep things up in a businesslike manner in order to live, and stay in the swim.

Another point that is being worked up, which will result in good and be nation wide in its benefits, is a system of credits. The credit business in the past has been very lax, and in fact, anyone who was a good fellow could get credit. The S. A. F., back of the Collection and Credit Committee, in starting a campaign of education along credit lines, will eliminate all the old loose practices which have been used in the past. This habit was to run up a bill on one man, stop buying from him, and run a bill on the next one, and then, when they had gone the rounds, start in paying the first one, and then so on down the line again.

There is no reason why every florist cannot pay his bills promptly when they become due. Other lines of business do it, and it has come to the point where, if the florist wants to live and do a prosperous business, he will have to pay his bills promptly or go out of business.

This is going to make one more careful in the credits he gives, and going to give him an incentive to watch up his collections very much closer and not have so much dead wood on his books. Then, too, it will give him an incentive to organize his establishment in a more up-to-date way. In fact, it will be absolutely necessary for him to organize his establishment in such a way that he can keep abreast of the times.

The growers, wholesalers, and retailers have passed through the last five or six months of very good business, probably giving them as prosperous a season as they have ever had, particularly for the fall and mid-winter months, and I can see no reason why the spring should not be equally as good and with a large increase in the volume of business. Summer business, as usual, probably will not be anything wonderful, but it ought to be fully up to other years; in fact, better. The fall starting in, in good shape.

I cannot see but that the flower business for 1919 will be a very healthy one in every way.

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CONTENTS

	Page
THE FLORICULTURE OUTLOOK FOR 1919—S. S. Pennock	197
WILLIAM J. STEWART—portrait.....	199
OBITUARY—C. S. Harrison, portrait—Abram H. Cushman	200
SOCIETY OF AMERICAN FLORISTS: National Publicity Campaign.....	201
CLUBS AND SOCIETIES: Lancaster County Florists' Association—Gardeners' Conference at Minneapolis—Florist Club of Phil- adelphia	202
OF INTEREST TO RETAIL FLORISTS: Flowers by Telegraph.....	208
FLOWER MARKET REPORTS: Boston, Chicago, New York, Philadelphia, Rochester, Washington, St. Louis.....	211
LOCAL AND GENERAL NEWS: Chicago, St. Louis.....	213
MISCELLANEOUS: Another Quarantine	200
Changing the Terms After the Goods Are Bought— Elton J. Buckley	203
Pruning Fruit Trees.....	204
Honor John Westcott.....	206
Patents Granted	206
Visitors' Register	209
News Notes	209-213

Plants without soil to be excluded

Certain nurserymen have felt that Quarantine 37 did not prevent them from importing small plants of azaleas, rhododendrons, conifers, etc., provided all the soil were washed from the roots,

and that it would still be possible to pack young plants of these, without soil, by simply packing so as to keep the fine fibrous roots moist by means of moss, oiled paper or other material which would preserve their moist condition. We now understand that all excluded plants

will positively be kept out, and that their entry under any circumstances except through the Department of Agriculture will not be permitted.

Though dead, he lives

The pen which has given visible expression to the messages of our editorial page since HORTICULTURE had its birth will do so no more; the hand which guided it and the brain whose inspiring thought it traced will never again be able to direct it, they have completed their work and are at rest. Our worthy and beloved editor, William J. Stewart, has crossed that bourne from which no traveler returns, and from beyond which no further message can come. Yet he lives. His true horticultural spirit and zeal still live in undying inspiration to all who have been fortunate enough to have known him.

Holland bulb prices to be still higher

Advance information as to the prices of Holland bulbs for next season is to the effect that they will be about double those of last year. HORTICULTURE understands that the syndicate of bulb exporters to this country have come to an agreement to ask uniform prices and thus eliminate price competition. War conditions have forced many of the smaller growers to abandon bulbs and grow vegetables, while the larger growers generally have reduced their bulb acreages. This curtailment of production has made it possible for the larger export growers to combine to fix prices. Such price-fixing, furthermore, is looked upon approvingly by the Netherlands government—it is not under government ban as with us. How the trade and retail buyers in this country will regard the great advance in prices is quite uncertain. Many felt that the top notch in bulb prices was reached last year and will regard bulbs at double last year's cost as unsafe speculation. The higher level of prices will stimulate the growing of the Holland bulbs in this country, especially early and Darwin tulips and the popular varieties of narcissus, and it will now be cheaper to grow these here than to import them. Hyacinths are more difficult as they involve much hand labor—but they are much less important. Over-reaching in prices has frequently broken up industries, monopolized by localities and caused their successful establishment in other places. We have no desire to see our friends of the Holland bulb district commit this error yet it is not unlikely that they by forcing the development of bulb-culture in this country, are incidentally forging the blade which shall very shortly cut off their trade with the United States. Unwittingly, perhaps, they are surely co-operating with our Department of Agriculture in its efforts to exclude all foreign material and to promote its production at home.

WILLIAM J. STEWART

William J. Stewart, founder, editor and manager of *HORTICULTURE*, passed away on Sunday, February 23, at 10.30 p. m., aged 69 years, 11 months. For over a year he had been in failing health which culminated in June of last year in a slight paralytic stroke from which he never fully recovered and in December last a carbuncle formed on his left temple which finally sapped up his remaining vitality.

Mr. Stewart was born in Cambridge, Mass., March 17, 1849. His strong sympathy for the beautiful in nature was early developed and after a high school education and brief experiences as a young man in several directions he went to work at the Harvard Botanical Gardens and from there to Boston, engaging in the retail flower trade from 1872 to 1879, afterwards taking up the wholesale commission sale of flowers, first as manager for E. M. Wood and later upon his own account, carrying on a large and successful business from 1879 to 1893.

His work in a public way having greatly increased he sold out his business interests to devote his time to his duties as secretary of the Society of American Florists and as Eastern manager of the American Florist.

Mr. Stewart has been a member of the Society of American Florists since the Cincinnati meeting in 1885, and one of the first essayists

of that organization. He was elected its secretary in 1887 and served continuously in that office until he was elected to its presidency in 1907 at the annual meeting at Dayton, O.

He was the first president of the Gardeners' and Florists' Club of

home at Winchester, Mass., took great delight in his collection of rare and beautiful trees, shrubs and flowers which he constantly enlarged with novelties which his many friends delighted to send him.

His position of secretary and president of the Society of American Florists brought him in affiliation with the best thought and activity of the various horticultural bodies throughout the east and west and he has been a close and intimate friend of the leading men in the commercial floral line throughout the country.

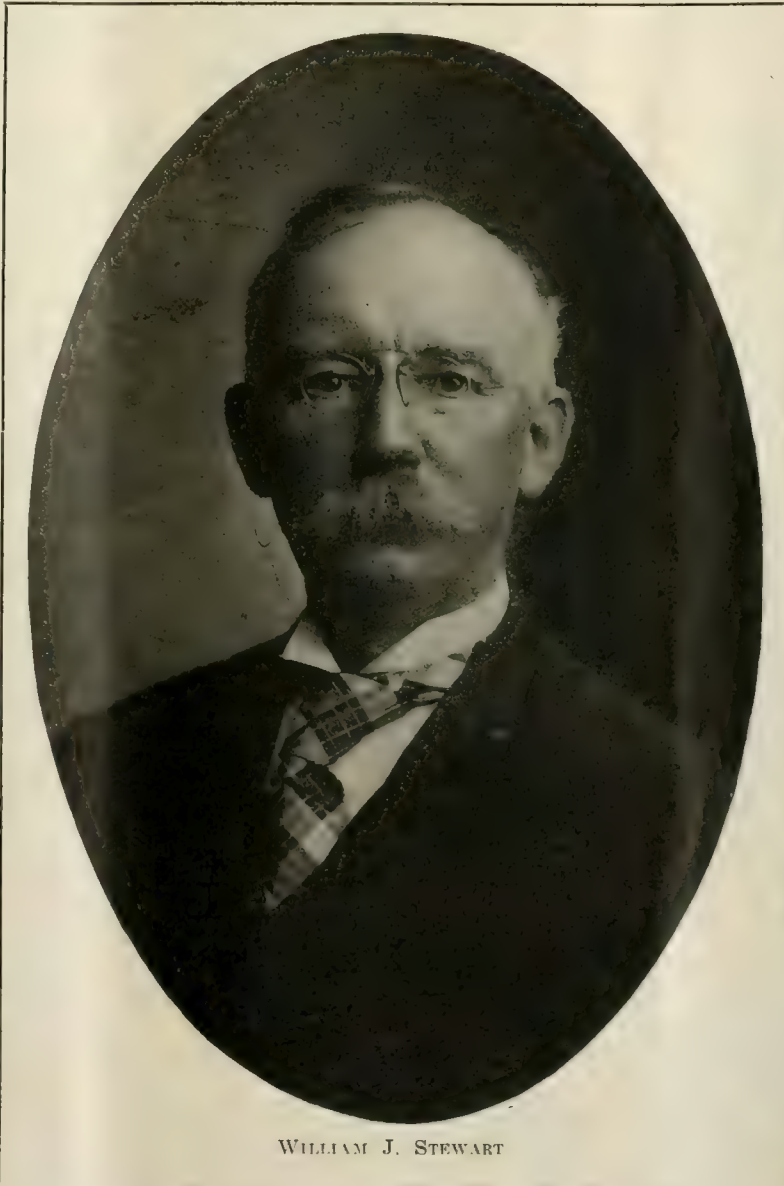
In 1904 he founded *HORTICULTURE* and since then had made it his life's work.

Mr. Stewart always wielded a forcible and facile pen and its influence for the good of the trade as a whole will be greatly missed especially during the present period of reconstruction.

He is survived by his wife and three married daughters, Mrs. Sadie Dunnell, Mrs. Louise Messenger and Mrs. Ellen Crousse

and also a brother, Andrew J. Stewart.

The interment was at Mt. Auburn Cemetery, Cambridge, Mass., on Wednesday afternoon, February 26. Many beautiful floral pieces from his numerous friends from all parts of the country and the many societies of which he had been a member covered the grave.



WILLIAM J. STEWART

Boston, being elected to that office in 1887 and was re-elected again in 1895. He was also a member and an active worker in the Massachusetts Horticultural Society and the New York Florists' Club, and was for a time secretary of the American Rose Society.

Mr. Stewart was an ardent horticulturist and at his beautiful

Obituary

C. S. Harrison

C. S. Harrison, the Grand Old Man of Nebraska, passed away at 4 o'clock, Sunday morning, Feb. 23. He was 86 years of age.

Mr. Harrison was born in the state of New York, Nov. 24, 1832, and went with his parents to Illinois in 1844. He worked on a farm until 21. Fitted for college in Chicago, paid his way braiding whiplashes at one and one-half cents a foot. Made nearly a mile of them that winter, left home with \$5.00 was gone eight months and returned with \$10, lived on 65 cents a week. Studied in Beloit College and was classmate for a time with Dr. James Strong, of Northfield College.

Commenced work as Home Missionary on the frontiers of Minnesota in 1857 before the roads and bridges got there, suffered all kinds of privations—nearly drowned, the horse sinking three times with him, nearly frozen, had to live on potatoes and tallow, and didn't know the history of the tallow and didn't want to know. He had a tract of country one hundred miles in extent where he preached the first sermon. Sometimes on cold winter nights he was followed by gaunt timber wolves, who howled almost broken hearted, because they could not have missionary raw and warm for supper. He was called here and there to preach and bury the dead. He also performed many surgical operations.

He saved the life of one man badly mangled in the saw mill. His son born after, was for five consecutive terms a member of congress, and his daughter wanted to be married by the man who saved Grandpa. The ceremony was performed in one of the largest hotels of Minneapolis just fifty-five years after the terrible accident.

After four years of strenuous work he went to Illinois. He was in the active ministry forty-five years, helped build sixteen churches, held many precious revivals, gathering in hundreds on confession. At one time receiving one hundred and two within a month.

In 1871 he was called by Land Commissioner George Harris, of the Burlington Railroad, to take a colony into York, which he cheerfully undertook to do, inducing about six hundred people to come to town and county. He started the town on the principle that Decency Pays and though sixteen miles from the railroad beat every town from Crete to Hastings. Fought the saloon to a finish and York now is one of the best cities in the West.

The most important work of his life was to aid in founding Franklin Academy in the Republican Valley in 1879 to which he gave the best years of his life and several thousand dollars. This school has done a wonderful work, aiding 3,000 students to a broader life.

When about forty years old he became intensely interested in horticulture. While at Franklin he had a state experiment station where he educated several students.

Since seventy years of age he has published the "Gold Mine in the Front Yard," three editions of the peony manual, two of the phlox, two of the iris and the evergreens, "The Undiscovered Country at Home." "Adorning the Beulah Land of the Hither Shore."

Following is his farewell message, which we print by request:

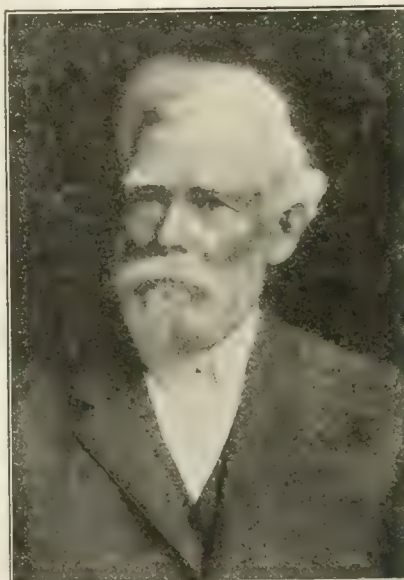
Good bye grand old mother earth; good bye majestic mountains, fertile plains, forests, singing brooks and sparkling lakes.

Goodbye you thousands of Horticulturists. Thank you for your many kindly words and appreciation of my labors. We have had a good time trying to lift our calling to a higher plane.

Good bye all my personal friends who have given me kindly cheer on my way.

My crowning work is the Gospel of Beauty lately published, with sketch of my life and a photo. The price is \$1.00 for the cloth binding, and fifty cents for the paper.

My life work was founding and helping sustain Franklin Academy. The proceeds of my book will go to help the Academy



C. S. HARRISON

which has done such heroic work, benefitting thousands of young people.

I die thanking God I have lived and known you all. May you succeed in your glorious work here and then be exalted to the higher Horticulture of God, whose everlasting spring abides, and never withering flowers.

Ever yours,

C. S. HARRISON.

Abram H. Cushman

Abram H. Cushman for many years prominently identified with the seed business in Rochester, died February 19th at his home 230 Magee Avenue in his 83rd year. He leaves one son, Wm. G. Cushman, of this city. The funeral was held at the family home and interment was at Mt. Hope. Abram H. Cushman was of New England ancestry, being a direct descendant of Robert Cushman, who boarded the Mayflower, but with other Puritans was compelled to make the journey to the New World in the Speedwell. He was born July 22nd 1836 at Raymerton, near Troy. At the age of 14 came to Rochester to enter school and to stay with an elder brother, Wm. T. Cushman, with whom he was later associated in the grocery busi-

ness. Later he entered the seed business and for eight years was manager of the Cleveland Seed Co. in New York City. Then he returned to Rochester and engaged in the seed business with which he was connected at the time of his death.

ANOTHER QUARANTINE

According to State Commissioner of Agriculture Wilfrid Wheeler, the market gardens of Massachusetts are threatened with \$1,000,000 damage if the United States Government puts into effect its proposed quarantine against the European corn-borer. Mr. Wheeler's statement was made Tuesday before the Legislative Committee on Agriculture at a hearing which was attended by many market gardeners and nurserymen.

Commissioner Wheeler read a circular from the Department of Agriculture at Washington, giving notice of a hearing there on the proposition to quarantine Massachusetts and New York against the transportation of all herbaceous plants, including garden and flowering plants, such as celery, Swiss chard, green or string beans, beet tops, spinach, turnip tops, dahlias, including stems and tubers; of gladiolus, chrysanthemums, corn in all forms and parts of the plant and all other field, vegetable and flowering herbaceous plants.

Commissioner Wheeler had the committee take up, for special consideration, the section of the proposed codification of the agricultural laws which authorizes him, after investigation and finding of due cause, to quarantine any town or city where the corn-borer is found and threatens it.

He told of the need of immediate action to forestall ruinous quarantine by the United States and asked that this section of the bill be taken out and made an emergency bill by itself and rushed through to the Governor.

Strong representations of the danger of quarantine against this state were made by J. K. M. L. Farquhar of the market gardeners, W. H. Wyman of the Bay State Nursery, George W. Smith of Wellesley Hills, David G. Stranger of the Cherry Hill Nursery, H. F. Thompson, head of the market garden department of the Agricultural College, who said that \$1,000,000 would be a low estimate of the damage in this State this year from quarantine; H. W. Tinkham of Warren, R. I., speaking for Massachusetts gardeners, and others.

Commissioner Wheeler, who attended the hearing at Washington Wednesday, before the Federal Horticultural Board for the quarantine and extermination of the European corn borer, states that the control in this state will be intrusted to the Massachusetts Department of Agriculture and that similar action was taken in regard to New York state.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

NATIONAL PUBLICITY CAMPAIGN

In a letter enclosing a cheque for \$250 as the yearly subscription from his retail store to the Publicity Fund, and another cheque for \$50, from his seed department, Max Schling, the well-known New York retail florist remarks as follows:

"I am very glad to say that the advertising of our organization begins to be felt. People are constantly talking about it, and I hope that the longer we keep up our efforts the more we shall merit the support of such florists, growers and others engaged in associated lines who have not already joined us in our work, so that we can not only increase our advertising but also force more and more the attention of the public to the fact that flowers can be used for any and every occasion; that their minds should turn to ourselves and our flowers in every case where courtesy to others is to be extended; and that whenever they want to express sentiment, it should be with flowers, and their gifts, also, should be floral."

Mr. Schling's views are shared by hundreds of other florists throughout the country; were evidence of this needed, it could not be better presented than in the very large demand lately experienced by our Promotion Bureau for the various items in its list of direct service aids: signs, stickers, movie slides, and electro-types for use in newspaper advertisements and other forms of advertising. In the last four weeks there have been despatched over 300 packages of this material.

Our slogan, "Say it with Flowers" is declared to be the best ever devised, eliminating as it does, anything approaching a direction, and embodying

pure and simple suggestion. The Promotion Bureau notices a general increase on the part of the trade in the use of this slogan, but there are still great numbers of florists who do not seem to realize the value it is to them in their local publicity. It should appear on all stationery, packages, shipping tags, delivery cars, and in all local advertisements. But the original slogan design should be adhered to, the one the public is accustomed to see in the magazines. Line slogans in various sizes are supplied by the Promotion Bureau, and cost but little, and every florist who uses printed matter of any kind should provide himself with one or more to cover his needs.

As already announced, the Campaign Fund this year is to be \$100,000. A goodly portion of this is already subscribed and the year is yet young. The great majority of those who subscribed last year are subscribers again this year, very many of them increasing their subscriptions. The campaign was more or less experimental last year, but the success attained has enthused the supporters of our movement to such an extent that they now consider their subscriptions as most profitable investments—and so they are.

There are very many florists who have not yet contributed to the Fund. The reason, no doubt, is that they wanted to see how the first efforts panned out. They need have no misgivings as to the efficacy of the work. The returns for the money expended have been remarkably profitable. By means of our publicity the florist trade was carried safely through a period dark with anxiety and unrest. The good influence exerted remains with us, and will remain as long as it

is nurtured and kept vigorously at work. Times are improving and response to our public overtures should be proportionately greater. But we must have the wherewithal to make these overtures. You can help us, Mr. Nonsubscriber, with your subscription; and please do not forget that in helping our project you are helping yourself most of all, as our Promotion Bureau is but the "clearing house" for your own effort, and which you owe it to yourself to make.

The following subscriptions have been received and are in addition to those previously announced, annually for four years unless otherwise stated:

William H. Fox, Parker Ford, Pa., \$25; M. E. Gregory, Miles City, Mont., \$3; Ad. Donarb, Cour d'Alene, Idaho, \$5; Queen City Greenhouses, Rochester, Minn., \$10; Davis & Kishler, Ypsilanti, Mich., \$5; Richard Lietz, Milwaukee, Wis., \$5; S. A. Baker, Rutland, Vt., \$5; Frank Finger, Bayside, L. I., \$3; J. T. Butterworth, Framingham, Mass., \$10; Carl Von Hein, Northampton, Pa., \$5; Miller Floral Co., Farmington, Utah, \$25; Peter Pearson, Chicago, Ill., \$5; Wm. Geenan, Kimberly, Wis., \$10; Aug. Hartmann, Kirkwood, Mo., \$5; Marshall Floral Co., Marshall, Mo., \$5; W. Frank & Sons, Portland, Ind., \$10; J. L. Johnson, DeKalb, Ill., \$5; John W. H. Grupe, Schenectady, N. Y., \$5; W. D. Howard, Milford, Mass., \$5; Mac Farland's Florist, Akron, O., \$10; Nordwall Florist, Fort Dodge, Ia., \$10; Sam Sheimuk, Baton Rouge, La., \$5; Chicago Florists' Club, Chicago, Ill., \$500; C. T. Guenther, Hamburg, N. Y., \$10; Robert Scott & Son, Inc., Sharon Hill, Delaware Co., Pa., \$25; Herbert & Fleischauer, McMinnville, Ore., \$5; A. Harvey & Sons, Brandywine Summit, Pa., \$40; C. Warburton & Sons, Fall River, Mass., \$25; Walter Armacost & Co., Los Angeles, Cal., \$25; John Gipner, Niles, Mich., \$5; Alfred Forder, Cincinnati, O., \$5; Morgan Floral Co., Fort Morgan, Colo., \$5; Frank A. Volz, Cincinnati, O., \$5; Gardeners' & Florists' Club of Boston, Mass., \$50.

Total, \$876.00. Previously reported, \$29,030.50. Grand total, \$29,906.50.

JOHN YOUNG, Secy.

February 24, 1919.

LANCASTER COUNTY FLORISTS' ASSOCIATION.

Thursday, Feb. 20th, a party of fourteen took the Strasburg car for a visiting trip to that borough. The first stop was made at Amos Rohrer's where, in addition to a very fine lot of blooming carnations, we found the stock for next season in better shape than any of us ever saw before for the middle of February. White Wonder has always done so well, he sticks to this variety for his main crop of white and sees no reason to change. He also had some very fine blooms of Belle Washburn and sent a vase of it in for the exhibition table at the meeting. In addition to carnations he grows Schizanthus, Candytuft, Calen-

dula, Sweet Peas and Calla Lilies, and has a side line of vegetable plants that help materially to cover the running expenses of the place.

A cut across fields brought us to the houses of J. Wade Galey, who has by far the finest lot of plants and cut blooms that this section ever produced, and he has been cutting steadily since Oct. 4th. There are buds in all stages of development and young shoots galore so that they certainly look as if they were there for permanent blooming. Mr. Galey sticks to Beacon for a red and his benches are proof that he uses good judgment in doing it. He also swears by Alice, which most of our growers have discarded.

Getting back to Strasburg the establishment of our genial friend, Chas. B. Herr, was the Mecca for a lot of

weary-pilgrims, and although he had one large house cut out in order to comply with the fuel regulations of the early season, we found enough to occupy us for a little over an hour. His carnations are always good and this season crop is no exception to the rule, but he is up against a proposition to get enough stock for another season as they are making so few cuttings and the varieties he would like are unattainable. The forty-two year old Calla Lily, still in the best of health and blooming every season, is one of the curiosities of this place—not that Chas. B. is 42; it is an heirloom handed down to him from a former generation. His place is a model one from an artistic point of view, and shows what can be done to make a greenhouse attractive and a permanent advertisement for beautiful grounds and buildings.

Getting back to Lancaster a little

after six a party went to one of our oyster houses and enjoyed an oyster supper. At 7.30 found us in the Chamber of Commerce rooms, and the first order of business was the staging of a wonderful lot of sweet peas that Messrs. H. K. Rohrer, Chas. M. Weaver and Elmer J. Weaver brought with them from the W. Atlee Burpee trial houses. They were all good with the following as specials: Zephyr, a true lavender; Daybreak, a salmon pink; Snowstorm and Sankey, whites, and Gypsy Maid, a fine pink. Other varieties shown were Glorious, Lavender King, Luster, Illuminator, Enchantress, Mauve Beauty, Blue Bird, Albacross, Fordhook Rose, Rosy Morn, True Blue, Fairy, Fantasy, Pink Beauty, Empress, Dazzler, Orange Beauty, Cherry Ripe, Loveliness and Splendor. The only other exhibit was the vase of Belle Washburn carnations from Amos Rohrer of Strasburg.

Harry K. Rohrer made a few remarks on his trip to Burpee and said that the sweet peas were the result of crosses between summer blooming varieties and Yarrowa, a winter variety from Australia. The ones from which these blooms were cut were sown Oct. 8th, and in early January started to bloom; if planted in the fall, out doors, as many of our Lancaster growers do, they would bloom the latter part of April, at least four weeks earlier than the ordinary varieties.

The paper of the evening was written and delivered by Mr. Harry B. Haverstick who had charge of the laying out of the parks and grounds at Hershey, now with the B. F. Barr Co. as landscape man. The title of the paper was Beautifying Home Grounds, and was well received and Mr. Haverstick was under a fire of questions for some time afterward.

Mr. Dyer made a few remarks on the butchering of city trees by wire men, and also stated that this country would wake up some day and find itself a forestless nation. He thought that for every tree cut down there should be one planted, and being one of the largest lumber men of the east he knew whereof he was talking.

Communications were read from Sec. John Young, one on publicity, and this club is going to make a pretty good showing along this line; the other, an appeal from Pres. Totty to help on the cost problem, and on this committee the president appointed Messrs. Harry K. Rohrer, John Shoenberger and Albert M. Herr.

In order that a real picnic could be held some time this summer, the president appointed a committee to arrange for a picnic to which the leading florists will be invited, and the committee was instructed that they had plenty of time to prepare and should get busy at once. Messrs. Albert M. Herr, Harry K. Rohrer and B. F. Barr are the committee.

Dennis Connor was the only visitor, and always a welcome one.

Arrangements were made for a party to take in the Philadelphia meeting in March with a visit to Strafford in the afternoon.

Our own meeting in March will be as the guests of the Ladies' Auxiliary at the home of B. F. Barr.

ALBERT M. HERR.

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GARDENERS' CONFERENCE AT MINNEAPOLIS.

The members of the National Association of Gardeners of Minneapolis and vicinity held a very interesting conference at the residence of Theodore Wirth, which was well attended.

Mr. Wirth was elected chairman and George H. Instone of Lake Minnetonka, secretary. The program for the day was outlined by the chairman, who briefly referred to the several subjects to come up for discussion.

The first matter discussed was the impending embargo on importation of trees, shrubs, bulbs, etc., from foreign countries. The opinion prevailed that this action was unwarranted, especially at this time, and that the Federal Horticultural Board was exceeding its power conferred by Congress. All present pledged themselves to send a personal letter of protest to their respective Senators and Representatives in Washington, D. C. Mr. Wirth read a letter of protest which he sent to the Minnesota members of Congress in the name of the Board of Park Commissioners. The secretary was instructed to write a letter to the secretary of the National Association, suggesting that he write a letter to every member of the association to interest himself in a similar way in this matter. The chairman was instructed to present this question before the Minnesota Horticultural Society at their annual meeting to be held in Minneapolis.

The work of the war garden as conducted in this part of the country was brought to the attention of the conference. The Minneapolis Garden Club it was found had a most successful year.

After luncheon at Mr. Wirth's residence, the conference took up the question of forming a gardeners' club of Lake Minnetonka. It was the opinion of all present that there were enough gardeners in the locality to warrant the forming of such an organization and that the interests of the gardeners and their employees would be served through such a club. Mr. Klapotz was appointed chairman to take the matter in hand, with the privilege to select his own fellow members. He agreed to get busy and intimated that he would make ar-

rangements for the organization of such a club in the near future.

The fact that many estate owners do not give year-around employment to their gardeners in our section of the country, and that they do not know what the real qualifications of a good gardener are, was made the subject of a long discussion. It was the opinion of all present that the gardener, himself, is greatly to blame for such conditions and underestimation and lack of recognition of his profession and its value. One of the first topics to be taken up by the club to be formed will be the question of how to educate the estate owners along those lines and how to establish better and closer relationship between the employers and employees in this field of work.

The matter of exhibitions and field meetings was also given consideration, and it was predicted that such shows and gatherings would be of help toward the solution of this and many other questions of general progress and mutual benefits.

GEORGE H. INSTONE, Secy.

FLORIST CLUB OF PHILADELPHIA.

The March meeting of the Florists' Club on Tuesday next will be carnation night, and will be one of the most attractive meetings of the season and should bring out the largest attendance.

It is to be held in the roof garden of the Adelphia Hotel, opening with a dinner at 6 p. m. at a cost of \$2.00 per plate. The January banquet was most enjoyable and this should prove even more so.

There will be an exhibition of nearly all the varieties of carnations that were prize takers at the recent Cleveland carnation show. The Burpee collection of new varieties of orchid sweet peas will also be a feature, which should be especially interesting to commercial growers.

M. J. Brinton, Christiana, Pa., will read a paper on "Carnation Ideals and Success." Mr. Brinton is a very practical and successful grower, whose treatise will contain much valuable information. Charles H. Grakelow will also address the club on the "A B C of the Florists' Telegraph Delivery Association," showing its benefits to all retail florists irrespective of their volume of trade.

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Cambridge, Mass.

CHANGING THE TERMS AFTER GOODS ARE BOUGHT

A question has been put to me that I do not remember having written on, at least not specifically on this phase of it. It is this:

When a man buys goods or has some kind of a business transaction with another, all the terms of which are agreed upon at the time the deal is made, can the seller afterward, by a notice in an invoice, or on a bill head, or in a letter, make some new rule about it which will affect the other party?

The illustration which is used in submitting the question to me will make the application of the rule clear. In this case a merchant bought some goods on certain well-understood terms. They were delivered and accepted and the invoice paid. Several weeks later, when the goods were gone over with the intent to put them on sale, it was discovered that they were defective. Claim was made, but the seller declined to recognize it, pointing to a clause in the invoice reading: "All claims must be made within ten days after receipt of goods." In the original order nothing had been said which would limit the making of claims in any way.

The question is, is that buyer done out of his right to claim for defects?

The answer is emphatically no. A seller cannot take a completed order or contract, and introduce into it secretly in a way, an entirely new provision which affects the buyer's rights.

The above effort to do this is typical of schemes that sellers of merchandise and parties to contracts, are constantly endeavoring to put over, and quite often they succeed because the other party doesn't know his rights. The general law on the subject I quote as follows:—

Terms brought to the acceptor's notice after the agreement is complete will not affect the agreement. If a party, therefore, cannot be charged with notice of the conditions contained in a paper which he accepts as containing the actual offer at the

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Albert Roper, unrooted cuttings, \$2.00 per 100. Cash with order.
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Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 postpaid. I. L. PILLSBURY, Galesburg, Ill.

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Peony Dahlia Mrs. Frederick Grinnell. \$10.00 per clump. Cash with order.
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New Peony Dahlia—John Wanamaker, Newest, Handsome, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

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Fine, all colors mixture, \$1.25 per 100, \$10 per 1000. Send for catalog.
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Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish goods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

HOT BED SASH

Standard Hot Bed Sash, 3 x 6, \$1.50 each. Order for 10 to 24, \$1.45 each; 25 to 50, \$1.40 each. Glass, 50 square feet, 6 x 8, 8 x 10 at \$1.50. 10 x 12, 10 x 14 at \$4.25.
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ORCHIDS

HASSALL & CO., Orchid Growers and Raisers, Southgate, London, England. Cattleyas and Laello-Cattleyas our specialty. One trial order solicited.

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Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

very instant it is delivered to him, even actual notice afterward will have no effect. Upon receipt by a railroad of a parcel to be conveyed to its destination, the charge being paid or to be collected on delivery by the consignee, the contract is completed and the railroad's responsibility at once attaches, and it cannot be changed by the subsequent delivery to the customer of a bill of lading or other writing containing conditions limiting the railroad's liability, unless it appear that the intention of the parties was that the oral negotiations were simply preliminary to the formal contract which was to be contained in a bill of lading or other written instrument.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. LAGER & HURRELL, Summit, N. J.

SWEET PEAS

Just Arrived, crop 1918 winter flowering SWEET PEAS, New Zealand grown, the large flowering waved or Spencer type. We have been very fortunate to secure the entire crop of one of the best growers in New Zealand. New Zealand grown seed has always produced the earliest and best blooms, and seed started in August will produce flowers from Thanksgiving until March; requiring a low temperature, these make an ideal crop for the Florist this year. Scarlet, always a good seller. Finest Mixture, all the best colors. Pink and White, Blanche Ferry type. Yarrowa (true), bright rose pink with light wings. Write for further particulars.
JULIUS ROEHRS CO., Rutherford, N. J.

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Flowering and Foliage Vines, choice collection. Large Specimen, Pot and Tub grown for immediate effect; also Climbing Roses. J. H. TROY, Mount Hissarlik Nursery, New Rochelle, N. Y.

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LANDSCAPE GARDENER WANTED

One capable of making and executing plans who can make himself useful both in the office and outside. State experience, age and salary expected.

E. W. BREED, Clinton, Mass.

WANTED: At once, 2 or 3 young men to learn rose growing at Wakefield, Mass. Will pay what a man is worth. Apply to N. F. MCCARTHY, 31 Otis St., Boston, Mass.

SITUATIONS WANTED

SITUATION WANTED as outside gardener on private estate by single man who thoroughly understands the business. W. J. DEVERY, 10 St. Germain St., Boston, Mass.

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GREENHOUSES FOR SALE

Must settle estate; many years successful operation. Good location, convenient to two railroads, within twenty-five minutes of Boston. Also dwelling, stable and outbuildings. Apply at once. MRS. E. M. RUMERY, Newtonville, Mass.

Note that the above lays down the rule that even if one party has notice of what the other is trying to do, viz.: introduce some new rule, he is not bound to notice it and is not bound by it. To apply this, if in the above case, the buyer had seen the words "all claims must be made within ten days," etc., in the invoice, he would not have been obliged to pay any attention to them.

There was one case in which a silk jobber delivered to a buyer a lot of silk to be dyed. When it came back it was found to be badly and unskill-

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America and Chicago Blooming Bulbs, $\frac{3}{4}$ to $1\frac{1}{4}$ in. blooming size bulbs, per 1000...\$9.00

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America, $1\frac{1}{4}$ in. and up, per 1000\$20.00

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Mrs. Francis King, $1\frac{1}{4}$ in. and up, per 1000.....\$20.00

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fully done. The owner brought suit for damages. The defense was that when the silk was sent back to the owner, after being dyed, it was accompanied by a bill on which was printed: "All claims for damages or deficiency must be made within three days from date, otherwise not allowed." It was also claimed that the owner of the silk saw this on the bill, and it was argued that by accepting the silk and the bill, he was bound by the notice. The court made short work of the defense. It held that there was nothing to it. This was the core of the decision:—

Upon a bailment of goods for work and labor upon them, the contract between the parties arises immediately upon the delivery of the goods to the bailee. The contract is that the work shall be performed with reasonable skill and care, and that the work being completed they shall be returned to the owner. The bailee cannot prescribe terms on which he will return them, and an agreement of bailee that he will make a claim for damages within certain time lacks a consideration, for bailee was bound to return them unconditionally.

In still another case a dry goods jobber sold through a travelling salesman a quantity of goods at certain prices and on certain terms contained on written memo signed by the salesman. The goods were shipped and with them an invoice printed thus: "All bills become due when parties suspend payment, assign or sell out.

All goods dated ahead are merely consigned and subject to replevin until said dating has expired. Retention of the goods will be considered acceptance of all the terms herein."

The customer received and held the goods without objection, and prior to the expiration of the dating he assigned for the benefit of creditors. When the jobber stepped in and tried to seize the goods on the ground that the provision on the invoice was part of the contract, the court held that the notice was not binding on the buyer, as the principal had no right to modify the terms of agreement made with the salesman. That agreement fixed the rights and liabilities of both parties and could not be changed by any notice one might give the other later.

Any buyer can legally stand on the terms of the order, and can successfully refuse to be bound by any restrictions sought to be introduced in the deal afterward.

(Copyright, January, 1919, by Elton J. Buckley.)

PRUNING FRUIT TREES

All fruit trees whether apple, pear, peach, or cherry, should be given the best of care during the next two or three years, says Prof. S. F. Hollister, of the Department of Pomology at Connecticut Agricultural College at Storrs.

A great many fruit trees have been killed throughout New England, and other states, and no orchards which have been planted can produce the

fruit to take the place of those already killed, says Prof. Hollister, so plan a program which will include the pruning, spraying and cultivation of these trees. The natural work to take place at the present time is the pruning of these trees.

It hardly pays to spray an old, unpruned tree for the simple reason that too much material is wasted on branches and limbs that should have been removed. Have a sharp saw and go after this work at once.

The March meeting of the Florists' Club of Washington, D. C., promises some fun. The date is March 4 and that is the florists election night. There are several candidates for each position.

STAR BRAND ROSES

"American Pillar" and nearly every other good hardy climber.

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Etta Dyke. White. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.

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White Perfection. Extra large white of good substance exceptionally waved. Oz. 40c., $\frac{1}{4}$ lb. \$1.25, lb. \$4.50.

PINK AND WHITE BICOLOR

Mrs. Cuthbertson. The finest pink-and-white variety; standard rose-pink, wings white. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.

Blanche Ferry Spencer. Good pink-and-white; standard rose, wings white. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.

PINK

Countess Spencer. Bright pink. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.

Florence Morse Spencer. Blush-pink. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.

Hercules. The largest and longest stemmed deep pink. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

Lovely. Bright pink, soft blush and almost white at the edges. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

Margaret Atlee. Warm salmon pink. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.

Mrs. Hugh Dickson. Beautiful cream pink. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.

Mrs. Routzahn. Straw-color, tinted blush. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

Apple Blossom. Rosy pink. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

Duplex Spencer. Cream pink. Oz. 40c., $\frac{1}{4}$ lb. \$1.25, lb. \$4.50.

ORANGE

Fiery Cross. A splendid orange-scarlet. Oz. 50c., $\frac{1}{4}$ lb. \$1.75, lb. \$7.00.

Helen Lewis. Orange-salmon pink. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.

Thomas Stevenson. Fine orange-scarlet. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

SALMON

Barbara. Rich, glowing orange-salmon. Oz. 30c., $\frac{1}{4}$ lb. \$1.00, lb. \$3.00.

Stirling Stent. Glorious deep salmon. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

SCARLET

Scarlet Emperor. Bright scarlet, very vigorous. Oz. 30c., $\frac{1}{4}$ lb. \$1.00, lb. \$3.00.

Vermillion Brilliant. Brilliant scarlet. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

CRIMSON

King Edward Spencer. Crimson. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.

Maud Holmes (Sunproof). Crimson. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

CARMINE

Decorator. The general tone is a deep carmine. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

George Herbert Spencer. Rosy carmine. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.

Marie Corelli. Brilliant rose carmine. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.

MAROON

Nubian. Best maroon. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

Othello Spencer. Glossy maroon. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.

Black Knight. Bronzy maroon. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.

LAVENDER

Asta Ohn. Beautiful soft lavender. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.

Florence Nightingale. Rich lavender, soft pinkish sheen. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.

R. F. Felton. Soft lavender. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

Frank Dolby. Light lavender. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.

Masterpiece. Rich lavender. Oz. 40c., $\frac{1}{4}$ lb. \$1.25, lb. \$4.50.

BLUE

Wedgewood. Bright silvery blue. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

Flora Norton. Bright blue tinted purple. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.

PURPLE

Captain of the Blue Spencer. Pure purple. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

Royal Purple. Rich, royal purple. Oz. 30c., $\frac{1}{4}$ lb. \$1.00, lb. \$3.00.

PICOTEE-EDGED

Dainty Spencer. White ground, beautiful picotee edge of rose-pink. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

Mrs. C. W. Breadmore. Cream ground, beautiful picotee edge of pink. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

STRIPED AND FLAKED

American Spencer. White ground, mottled and flaked crimson. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

Aurora Spencer. White ground, striped and flaked orange-pink. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

Jessie Cuthbertson Spencer. Ground color rich cream, overlaid with stripes and marblings of bright rose-pink. Oz. 30c., $\frac{1}{4}$ lb. \$1.00, lb. \$3.00.

Loyalty. Ground-color white, striped blue. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

Senator Spencer. Chocolate and seal-brown striped and flaked on ivory-white. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.

MIXED SPENCERS

Containing every shade known in desirable proportions. 10 lbs. \$9.00. Oz. 10c., $\frac{1}{4}$ lb. 25c., lb. \$1.00.

EARLY FLOWERING SPENCERS FOR DECORATION DAY

Early Pink and White Spencer. Standard bright pink, wings pure white. $\frac{1}{4}$ oz. 15c., oz. 50c., $\frac{1}{4}$ lb. \$1.75.

Early Red Spencer. Bright cherry-red. $\frac{1}{4}$ oz. 20c., oz. 75c., $\frac{1}{4}$ lb. \$2.50.

Early Scarlet Spencer. Beautiful crimson-scarlet. $\frac{1}{4}$ oz. 20c., oz. 75c., $\frac{1}{4}$ lb. \$2.50.

Early White Spencer. Pure white. $\frac{1}{4}$ oz. 20c., oz. 75c., $\frac{1}{4}$ lb. \$2.50.

Early Apricot Spencer. Beautiful apricot self. $\frac{1}{4}$ oz. 20c., oz. 75c., $\frac{1}{4}$ lb. \$2.50.

Early Lilac Spencer. Standard lilac wings light blue on white ground. $\frac{1}{4}$ oz. 20c., oz. 75c., $\frac{1}{4}$ lb. \$2.50.

Early Pink Spencer. Beautiful clear bright pink. $\frac{1}{4}$ oz. 20c., oz. 75c., $\frac{1}{4}$ lb. \$2.50.

Early Mixed Spencers. $\frac{1}{4}$ oz. 20c., oz. 65c., $\frac{1}{4}$ lb. \$2.00.

5% DISCOUNT, CASH WITH ORDER

Arthur T. Boddington Co., Inc., Seedsman 128 Chambers Street
NEW YORK CITY

HONOR JOHN WESTCOTT.

The Westcott celebration took place at Dooners' Hotel, Philadelphia, as scheduled on Feb. 22nd, and was attended by about sixty of his old friends, many of whom came from a long distance to do honor to the Commodore on his seventy-ninth anniversary. A. B. Cartledge acted as chairman and Robert Craig as toastmaster. A handsome gold watch with chain and compass was presented to Mr. Westcott as a memento of the occasion, the presentation speech being made by Dr. Peter H. Lane. Among other prominent speakers to the formal toasts were William F. Gude, Daniel H. Donoghue, Chas. H. Totty, J. Otto Thilow, Chas. L. Seybold, Antoine Wintzer, Chas. H. Grakelow and Samuel S. Pennock. Selections were read by Robert Kift, and an original poem of unusual beauty was sent in by Mrs. Samuel S. Pennock. Songs and music interspersed the banquet during its six hours of fun, food and feeling and altogether a splendid evening was passed in doing honor to one whom we all love. The decorations were the loving work of Pennock Bros., ably assisted by Habermehl Sons, George and Robert Craig, W. K. Harris and others. Edwin J. Fancourt acted as secretary for the committee and attended to the many details with great efficiency and success.

KING JOHN OF BARNEGAT

(Original poem by Mrs. Samuel S. Pennock of Lansdowne, Pa., in honor of Commodore John Westcott and delivered by her husband at Mr. Westcott's seventy-ninth anniversary celebration at Dooner's Hotel, Philadelphia, February 22, 1919.)

There's good King John, down Barnegat way

Whose castle stands, close by the bay,
His heart's as big as the ocean wide
And filled with love for all—inside.

This genial monarch in his fortress bold,
Has the spirit of kindness, I've been told.
He sends his call both far and near
Oh come, come away my subjects dear.

Come from your work, your cares—and rest,
'Tis often good for e'en the best;
Let's sail a-far on the waters blue
And try our luck with fishing—too!

So he gathers them in, these subjects true,
Under Summer skies of azure hue
He shelters them, in his castle there;
They draw deep breaths of salt sea air.

And when they return to the haunts of men
Back to the city to work again,
They dream of John, their grand old king,
And ever and anon his praises sing.

If many kings there were like him,
Many less eyes with tears would dim,
Many less broken hearts there'd be,
Many less mourning bands we'd see.

If, o'er the sea there were such kings
The world would echo joyous rings,
And battle-fields not strewn with dead
If all thrones held a wise, crowned head!

Good luck King John, good wishes too
The best of earth should be for you;
We take this time—to let you see
Your faithful subjects—we would be.

We wish for you a long, glad reign,
A life of joys that ne'er shall wane
Where seasons shall be—only Spring,
God bless you John, our noble king!

PATENTS GRANTED

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Nels P. Anderson, Robbinsdale, Minn.
1,291,580. Draft-Equalizer, Lester G.
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Burpee's Seeds Grow

BURPEE'S AMERICAN ASTERS

We have all that are best in this popular Annual, and our American-grown strains are unsurpassed. Sow Now for Early Blooming Under Glass.

QUEEN OF THE MARKET

The earliest and most popular for greenhouse culture. We offer this superb variety in the following separate colors:

	Pkt.	1/4 oz.	Oz.		Pkt.	1/4 oz.	Oz.
Crimson	\$0.05	\$0.30	\$1.00	Light Pink	\$0.05	\$0.30	\$1.00
Pink	.05	.30	1.00	Dark Blue	.05	.30	1.00
Lavender	.05	.30	1.00	White	.05	.30	1.00
Purple	.05	.30	1.00	Light Blue	.05	.30	1.00

NEW EARLY-FLOWERING ROYAL ASTERS

An Early Branching Type to Follow Queen of the Market.

The flowers of great size are borne on long stiff stems.

	Pkt.	1/4 oz.	Oz.		Pkt.	1/4 oz.	Oz.
Lavender	\$0.10	\$0.40	\$1.50	White	\$0.10	\$0.40	\$1.50
Pink	.10	.40	1.50	Rose	.10	.40	1.50
Purple	.10	.40	1.50				

LATE BRANCHING ASTERS

This truly American type is known as Semple's, Carlson's, Vick's and Invincible Late Branching. We offer it in the following distinct colors:

	Pkt.	1/4 oz.	Oz.		Pkt.	1/4 oz.	Oz.
Azure Blue	\$0.10	\$0.30	\$1.00	Invincible Pink	\$0.10	\$0.35	\$1.25
Light Pink	.10	.35	1.20	Mary Semple, or Shell-			
Crimson	.10	.30	1.00	Pink	.10	.30	1.00
Dark Blue	.10	.35	1.25	Purple	.10	.30	1.00
Lavender	.10	.30	1.00	Rose-Pink	.10	.30	1.00
				White	.10	.35	1.20

BURPEE'S AMERICAN BEAUTY ASTER

First offered by us two years ago, and named on account of its similarity in color to the famous American Beauty Rose. A distinct type, having larger and heavier flowers than the Late Branching Asters, while the flowers are borne on much longer and heavier stems.

It is also the latest of all Asters to bloom and, therefore, prolongs the season by several weeks. Indispensable to cut flower growers.

Burpee's American Beauty. Bright carmine rose, pkt., .10; 1/4 oz., .50; oz., \$1.75
Burpee's Purple Beauty. Rich purple, pkt., .15; 1/4 oz., .60

CREGO'S GIANT ASTERS

Resembling choice Chrysanthemums, this is at once the most beautiful and graceful of all American Branching Asters.

	Pkt.	1/4 oz.	Oz.		Pkt.	1/4 oz.	Oz.
Giant Shell-Pink	\$0.10	\$0.45	\$1.50	Giant Rose-Pink	\$0.10	\$0.45	\$1.50
Giant Lavender	.10	.45	1.50	Giant Purple	.10	.45	1.50
Giant White	.10	.45	1.50	Giant Crimson	.10	.45	1.50
Giant Azure Blue	.10	.45	1.50				

KING ASTERS

A tall branching type with long narrow quilled like petals. Very lasting when cut. Our stocks embrace the following separate colors:

Crimson, pkt., .10; 1/4 oz., .50; oz., \$3.00.	Rose, pkt., .10; 1/4 oz., .65; oz., \$2.25.
Lavender, pkt., .10; 1/4 oz., .50; oz., \$3.00.	White, pkt., .10; 1/4 oz., .50; oz., \$3.00.
Pink, pkt., .10; 1/4 oz., .65; oz., \$2.25.	Violet, pkt., .10; 1/4 oz., .55; oz., \$2.50.

OTHER IMPROVED AMERICAN ASTERS

	Pkt.	1/4 oz.	Oz.		Pkt.	1/4 oz.	Oz.
Crimson Giant. Upright branching	\$0.10	\$0.50	\$1.75				
Rochester. Light lavender-pink	.10	.50	1.75				
White Mikado. A pure white Giant Comet	.10	.45	1.75				
Pink Beauty. Excellent for pots	\$0.10	\$0.50	\$2.25				
Peerless Pink. Beautiful shell pink	.10	.30	2.25				
Sensation. Distinct bright cardinal	.10	.30	2.25				
Lavender Gem. Silvery-lavender Comet type	.10	.40	2.75				

DAYBREAK ASTERS

This is perhaps the most useful type for growing in pots, while they are unsurpassed for bedding. May be had in the following separate colors:

	Pkt.	1/4 oz.	Oz.		Pkt.	1/4 oz.	Oz.
Bluebird (Azure Blue)	\$0.10	\$0.35	\$2.50	Daybreak (Silvery-Pink)	\$0.10	\$0.35	\$2.50
Purity (White)	.10	.35	2.50	Rose	.10	.35	2.50
Lavender	.10	.35	2.50	Salmon	.10	.60	
America (Pink)	.10	.30	2.25				

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Mr. Chas. H. Vick was formerly president of Jas. Vick's Sons, but is now associated with Geo. B. Hart, Rochester's well-known wholesale florist.

HIGH GRADE ASTER SEED

We are fortunately in a position to supply high grade Aster Seed in various colors and desired quantity.

SCARCITY OF SEED

The general scarcity of Aster Seed this season leads us to emphasize the importance of sending us your order without delay.

AVOID INFERIOR SEED

Our Aster Seed is from healthy stock absolutely free from stem rot and other diseases so prevalent last season. Florists may be confident of uniformly good results in purchasing Aster Seed passed on by Mr. Chas. H. Vick, who introduced the first large-flowered American Aster, Vick's Late Branching, known the world over.

ASTER LATE BRANCHING

	1/16 oz.	1/8 oz.	1/4 oz.	Oz.
White	\$0.20	\$0.35	\$0.60	\$2.00
Shell Pink .....	.20	.35	.60	2.00
Lavender .....	.20	.35	.60	2.00
Enchantress				
Pink .....	.20	.35	.60	2.00
Purple .....	.20	.35	.60	2.00
Rose .....	.20	.35	.60	2.00
Crimson .....	.20	.35	.60	2.00
Mixed .....	.15	.25	.40	1.50

ASTER VICK'S KING

	1/16 oz.	1/8 oz.	1/4 oz.	Oz.
White	\$0.20	\$0.35	\$0.60	\$2.00
Shell Pink .....	.20	.35	.60	2.00
Lavender .....	.20	.35	.60	2.00
Rose .....	.20	.35	.60	2.00
Violet .....	.20	.35	.60	2.00
Crimson .....	.20	.35	.60	2.00
Mixed .....	.15	.25	.40	1.50

VICK'S IMPERIAL

	1/16 oz.	1/8 oz.	1/4 oz.	Oz.
Purity White	\$0.20	\$0.35	\$0.60	\$2.00
Daybreak Pink .....	.20	.35	.60	2.00
Rose .....	.20	.35	.60	2.00
Blue .....	.20	.35	.60	2.00
Lavender .....	.20	.35	.60	2.00
Mixed .....	.15	.25	.40	1.50

ROCHESTER

	1/16 oz.	1/8 oz.	1/4 oz.	Oz.
White	\$0.20	\$0.35	\$0.60	\$2.00
Pink .....	.20	.35	.60	2.00
Lavender .....	.20	.35	.60	2.00
Violet .....	.20	.35	.60	2.00
Rose .....	.20	.35	.60	2.00
Mixed .....	.15	.25	.40	1.50

QUEEN OF THE MARKET

	1/16 oz.	1/8 oz.	1/4 oz.	Oz.
White	\$0.15	\$0.25	\$0.40	\$1.50
Shell Pink .....	.15	.25	.40	1.50
Lavender .....	.15	.25	.40	1.50

ASTER VICK'S ROYAL

	1/16 oz.	1/8 oz.	1/4 oz.	Oz.
White	\$0.20	\$0.35	\$0.60	\$2.00
Shell Pink .....	.20	.35	.60	2.00
Lavender .....	.20	.35	.60	2.00
Purple .....	.20	.35	.60	2.00
Rose .....	.20	.35	.60	2.00
Mixed .....	.15	.25	.40	1.50

ASTER IMPROVED GIANT CREGO

	1/16 oz.	1/8 oz.	1/4 oz.	Oz.
White	\$0.20	\$0.35	\$0.60	\$2.00
Shell Pink .....	.20	.35	.60	2.00
Lavender .....	.20	.35	.60	2.00
Rose .....	.20	.35	.60	2.00
Crimson .....	.20	.35	.60	2.00
Purple .....	.20	.35	.60	2.00
Mixed .....	.15	.25	.40	1.50

AMERICAN BEAUTY

	1/16 oz.	1/8 oz.	1/4 oz.	Oz.
Rosy Carmine	\$0.30	\$0.50	\$0.85	\$3.00
Purple40	.70	1.25	4.00

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Boston—Penn the Florist, 124 Tremont St.
Brooklyn, N. Y.—Wilson, 3-5 Greene Ave.

Buffalo, N. Y.—S. A. Anderson, 440 Main
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Buffalo, N. Y.—Palmer's, 304 Main St.

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Chicago—William J. Smyth, Michigan
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Toronto, Can.—J. H. Dunlop, 8-10 West
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Philadelphia, Pa.

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Holland; W. W. Fry and W. F. Ther-
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Pa.; Frank Lindsay, Portsmouth, Va.;
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H. Totty, Madison, N. J.; W. F. &
Adolph Gude, Washington, D. C.; Chas.
L. Seybold, Wilkes Barre, Pa.; E. A.
Harvey, Brandywine Summit, Pa.

NEWS NOTES

Dunkirk, N. Y.—The greenhouse of
Gilroy Brothers in Sheridan was bad-
ly damaged by fire Feb. 18. The loss
is estimated at \$2,000.

New York—The New York Florists'
Supply Company has leased the store
at the northwest corner of 28th street
and Sixth avenue for a term of years.

New London, Conn.—Edward A.
Smith, the Mercer street florist, has
disposed of his business and property
to K. H. Samuelson, who comes from
New Jersey. Mr. Samuelson has been
in the florist business for 12 years and
will take possession here March 1.
Mr. Smith has been appointed super-
intendent of Mohegan park, Norwich,
and will take up his duties on April 1.

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GIGANTEA ROSEA. Seed saved from plants with large
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Roses						
Am Beauty, Special.....	75.00	to 100.00	50.00	to 60.00	to 100.00
" " Fancy and Extra.....	50.00	to 75.00	30.00	to 40.00	50.00	to 75.00
" " No. 1 and culls.....	20.00	to 30.00	12.00	to 20.00	20.00	to 40.00
Russell.....	19.00	to 25.00	6.00	to 25.00	20.00	to 40.00
Hadley.....	12.00	to 25.00	5.00	to 10.00	10.00	to 40.00
Mock, Key.....	6.00	to 15.00	5.00	to 25.00	.....	to 40.00
Arenberg, Hoosier Beauty.....	6.00	to 15.00	10.00	to 15.00	8.00	to 20.00
Ward, Hillingdon.....	6.00	to 15.00	4.00	to 8.00	.....	to 20.00
Killarney, Key, Taft.....	6.00	to 15.00	4.00	to 8.00	8.00	to 20.00
Ophelia, Sunburst.....	6.00	to 15.00	4.00	to 12.00	10.00	to 25.00
Carnations	4.00	to 6.00	0.00	to 8.00	8.00	to 25.00
Cattleyas	50.00	to 75.00	.....	to 75.00	50.00	to 60.00
Lilies, Longiflorum	12.00	to 20.00	20.00	to 25.00	20.00	to 25.00
Lilies, Speciosum	8.00	to 20.00	.....	to 20.00	.....	to 25.00
Callas	.....	to 20.00	15.00	to 20.00	20.00	to 25.00
Freesia	.....	to 20.00	.....	to 20.00	.....	to 25.00
Roman Hyacinths	.....	to 20.00	.....	to 20.00	.....	to 25.00
Stevia	.....	to 20.00	.....	to 20.00	.....	to 25.00
Marguerites	.....	to 20.00	.....	to 20.00	.....	to 25.00
Lily of the Valley	8.00	to 12.00	8.00	to 10.00	.....	to 25.00
Snaydragon	8.00	to 12.00	8.00	to 10.00	12.00	to 15.00
Violets	.25	to .75	.50	to 1.00	1.00	to 1.50
Narcissus	3.00	to 4.00	2.00	to 5.00	6.00	to 8.00
Calendula	2.00	to 4.00	1.50	to 3.00	6.00	to 8.00
Sweet Peas	1.00	to 3.00	.50	to 1.50	1.00	to 3.00
Gardenias	.....	to 100.00	.....	to 100.00	40.00	to 50.00
Adiantum	1.00	to 1.50	1.50	to 2.00	1.50	to 2.00
Smilax	.....	to 25.00	20.00	to 25.00	20.00	to 25.00
Asparagus Plumosus, & Spreng. (100 Bchs.).....	35.00	to 50.00	50.00	to 100.00	50.00	to 75.00

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WILLIAM F. KASTING Co.

Wholesale Florists

568-570 WASHINGTON STREET - BUFFALO, N. Y.

Flower Market Reports

While an abundance of **BOSTON** stock has caused a drop in prices in the local market business has continued to be brisk and while a clean-up is not effected every day the steady demand keeps everything moving. Roses are exceptionally good in all classes and carnations hold up well despite the increased supply. Lilies, which have been scarce for the past few weeks, are now becoming more plentiful. Sweet peas and violets are being shipped in daily in large quantities, and while violets drag somewhat, sweet peas find a ready sale. Bulbous stock is also in fair demand and there is plenty of it.

The market has eased **CHICAGO** up a little owing to stock coming in a little more plentifully. Roses in particular are not quite so hard to get, especially in the shorter lengths, so much in demand for funeral work. Washington's birthday made no special demand for flowers, in fact, owing to a storm, the week end sales were below normal with the wholesalers, and Monday bringing no rush to the market, it is fair to suppose the retailers did not dispose of their usual week end supply. Carnations continue to bring a good, stiff price. Violets are coming in quantity and there is quite a variety of flowers outside of the usual staples to choose from.

There is a pronounced **NEW YORK** dullness in the market this week with no appreciable increase in shipments. Even the demand for Beauties has eased up and quotations are lower; so it is with all roses. Carnations are not in such a large supply that they have suffered much in price. Sweet peas are quite plentiful and cheap. Tulips are holding up well but narcissus are lighter in supply and the price of these has stiffened. Lily of the valley still lags at about the lowest price of the season. Few longiflorums are coming in but callas are plentiful. Orchids, iris and snapdragons do not meet with a ready demand. A not over large supply of asparagus keeps the price firm. The decrease in orders for funeral work makes the dullness more pronounced.

Prices kept on a **PHILADELPHIA** fairly even keel here last week, and remain about as last reported. There are more Killarneys coming in but these do not go as well as the Russells and Columbias. Quality seems to count at present much more than price. No change in the American Beauty situation, they still bring a dollar for the best. Carnations more plentiful but still holding their own pretty well as to price. More reds could be used. Rather too many white and light. Daffodils that were such a strong feature have almost

The Chicago Flower Growers Association

WHOLESALE GROWERS of CUT FLOWERS and PLANTS

L. D. Phone Randolph 631

182 N. Wabash Avenue, CHICAGO

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Feb. 24		CHICAGO Feb. 24		BUFFALO Feb. 24		PITTSBURG Feb. 24	
Roses								
Am. Beauty, Special.....	60.00	to 75.00	75.00	to 100.00	60.00	to 75.00	50.00	to 60.00
" " Fancy and Extra.....	33.00	to 50.00	40.00	to 60.00	25.00	to 50.00	25.00	to 50.00
" " No. 1 and culls.....	10.00	to 25.00	10.00	to 25.00	5.00	to 20.00	10.00	to 30.00
Russell.....	15.00	to 30.00	10.00	to 35.00	8.00	to 20.00	10.00	to 25.00
Hadley.....	15.00	to 25.00	15.00	to 25.00	8.00	to 15.00	10.00	to 25.00
Euler, Mock.....	15.00	to 25.00	15.00	to 25.00	6.00	to 15.00	10.00	to 25.00
Arenberg, Hoosier Beauty.....	10.00	to 20.00	8.00	to 25.00	6.00	to 10.00	8.00	to 20.00
Ward, Hillingdon.....	8.00	to 15.00	8.00	to 20.00	6.00	to 8.00	8.00	to 20.00
Killarney, Key, Taft.....	8.00	to 15.00	6.00	to 20.00	6.00	to 15.00	8.00	to 25.00
Ophelia, Sunburst.....	8.00	to 25.00	8.00	to 20.00	6.00	to 15.00	10.00	to 25.00
Carnations	6.00	to 8.00	4.00	to 8.00	3.00	to 5.00	6.00	to 8.00
Cattleyas.....	10.00	to 25.00	25.00	to 50.00	60.00	to 75.00	10.00	to 25.00
Lilies, Longiflorum.....	10.00	to 20.00	15.00	to 20.00	15.00	to 20.00	10.00	to 25.00
Lilies, Speciosum.....	10.00	to 20.00	10.00	to 20.00	8.00	to 10.00	10.00	to 20.00
Callas.....	10.00	to 20.00	15.00	to 30.00	10.00	to 20.00	10.00	to 20.00
Freesia.....	10.00	to 20.00	3.00	to 8.00	10.00	to 20.00	6.00	to 8.00
Roman Hyacinths.....	10.00	to 20.00	3.00	to 6.00	10.00	to 20.00	3.00	to 5.00
Stavia.....	10.00	to 20.00	10.00	to 20.00	10.00	to 20.00	10.00	to 20.00
Marguerites.....	10.00	to 20.00	10.00	to 20.00	10.00	to 20.00	10.00	to 20.00
Lily of the Valley.....	8.00	to 10.00	6.00	to 8.00	8.00	to 10.00	8.00	to 10.00
Snapdragon.....	12.00	to 15.00	12.00	to 18.00	8.00	to 25.00	10.00	to 15.00
Violets.....	1.00	to 2.00	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50
Narcissus.....	5.00	to 6.00	3.00	to 6.00	3.00	to 4.00	4.00	to 5.00
Calendula.....	4.00	to 6.00	4.00	to 8.00	4.00	to 6.00	4.00	to 6.00
Sweet Peas.....	1.00	to 3.00	1.50	to 3.00	2.00	to 4.00	1.50	to 3.00
Gardenias.....	10.00	to 20.00	50.00	to 75.00	20.00	to 25.00	10.00	to 20.00
Adiantum.....	1.00	to 1.50	1.50	to 2.00	1.00	to 1.50	1.00	to 2.00
Smilax.....	10.00	to 25.00	25.00	to 30.00	15.00	to 20.00	10.00	to 30.00
Asparagus Plu. & Spren. (100 Bhs.)	35.00	to 50.00	50.00	to 100.00	35.00	to 50.00	40.00	to 50.00

stopped coming, and freesias and paper whites are also in much shorter supply. There is a welcome influx of the lavender iris (tingitana) which goes well. Sweet peas were never better and among the lower priced items they are one of the biggest features in the market.

Business during the past week has been fairly good and the market is well stocked with all kinds of flowers, the largest portion being of bulbous stock which continues to bring good prices. Many carnations are being shipped in and prices are considerably easier. Violets have sold more readily during the past week and sweet peas of good quality are selling well. Roses of all kinds are plentiful, but a shortage is noted in the shorter grades. Plenty of good pussy-willows are on the market and are used extensively. A large shipment of calla lilies arrive daily. The stores are well filled with potted plants, with a good demand. Asparagus is scarce.

There has been a marked shortage of roses. Red roses have been very much in demand. American Beauty roses are so scarce the wholesalers refuse to take orders for future delivery. There has been too many sweet peas, but they clean up pretty well. The demand for both Calla and Easter lilies has fallen off with a decrease in funeral business. Violets are about done for. Orchids are scarce, and in good demand. Spring flowers, including tulips, daffodils and narcissus, are scarce and high priced. Southern daffodils are available, but are not of good quality.

Washington's birthday **ST. LOUIS** took quite a few flowers and retailers report many corsage bouquets. Carnations are holding up well and roses are more plentiful. Violets are in moderate supply as are also sweet peas. Large shipments of southern jonquils are being received daily. There is also a good demand for greens.

Horticultural Books

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Chrysanthemum Manual. Elmer D Smith.....	90.50
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Commercial Rose Culture. Holmes.....	1.50
Violet Culture. Galloway.....	1.50
Greenhouse Construction. Taft.....	1.50
Sweet Peas up to Date. Kerr.....	1.50
Plant Propagation, Greenhouse and Nursery Practice. Kains.....	1.50
Plant Pruning. Kains.....	1.50
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Vegetable Gardening. B. L. Watts.....	1.75
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Principles of Floriculture. B. A. White.....	1.75
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NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Part of Week ending Feb. 22 1918		First Part of Week beginning Feb. 24 1918	
American Beauty, Special	50.00	to 125.00	50.00	to 100.00
" " Fancy and Extra	25.00	to 60.00	25.00	to 50.00
" " No. 1 and culls	5.00	to 20.00	4.00	to 20.00
Russell	5.00	to 35.00	5.00	to 35.00
Hadley	6.00	to 50.00	5.00	to 50.00
Euler, Mock, Key	5.00	to 20.00	4.00	to 20.00
Arenberg, Hoosier Beauty	4.00	to 15.00	4.00	to 15.00
Ward, Hillingdon	4.00	to 15.00	4.00	to 12.00
Killarney, Taft	4.00	to 12.00	5.00	to 12.00
Ophelia, Sunburst	5.00	to 20.00	4.00	to 15.00
Carnations	2.00	to 5.00	2.00	to 6.00

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W. J. COWEE, Berlin, N. Y.

10,000...\$3.25 50,000...\$9.75 Sample free.
For sale by dealers.

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Simple methods of correct accounting
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Local and General News

CHICAGO

A. T. Hey, for two years with the A. L. Randall Co., is now traveling salesman for Poehlmann Bros.

Joe Erringer, for several years with Zech & Mann, is receiving the congratulations of his friends on his marriage, Feb. 19.

Vol. 1, No. 1, of the Journal of the Society of American Florists and Ornamental Horticulturists, is being received in Chicago this week.

T. Waters, manager of the supply department of Poehlmann Bros. Co., had his hands full over the week end helping four salesmen to get started on their spring trip.

Archie Spencer has rented the salesroom in the Atlas block, 162 N. Wabash avenue, where Hoerber Bros. have been, and the larger space will give him room to expand the business he has built up during the last four years.

In the city bowling tournament, played last Sunday, Mrs. Chas. McKellar played on the team that won the honors. It was very hotly contested being the third year that the Leffingwell team has carried off the first place, this time by just five points. The individuals were played the following day, Mrs. McKellar scoring second highest with 237 points. The National League in which she was a winner last year will play at Toledo in March.

The details of the sale of the Hoerber Bros. greenhouses and lease of the salesroom were completed Feb. 24th and the business passes to Ernest and Paul Amling of Maywood, sons of A. F. Amling, well known and successful grower. The young men will start for themselves under very favorable circumstances, having been brought up in the work. The greenhouse plant is located at Desplaines and consists of twenty houses three hundred feet long, built nine years ago after the latest methods of construction. The business will be run under the name of the Amling Bros.

Philip C. Schupp has bought the wholesale business at 184 N. Wabash avenue, of which he has been manager for fourteen years, from Mrs. J. A. Budlong, mother of Mrs. Schupp. Mrs. Budlong also sold the greenhouses to her son, A. H. Budlong, who will operate them as before. While the two purchases make the men sole owners each of his part of the business they will work together as before, Mr. Budlong tending to the growing and his brother-in-law, Mr. Schupp, having the selling. The store will be managed under the name of the J. A. Budlong Co.

Last week Allie Zech became the owner of the half interest in the firm of Zech and Mann, formerly owned by his father, the late John Zech, who with Mathias Mann, founded the business in 1905. After the death of Mr.

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TELEPHONES
Farragut 167 and 3665

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Part of Week ending Feb. 22 1918	First Part of Week beginning Feb. 24 1918
Cattleyas	20.00 to 50.00	20.00 to 50.00
Lilies, Longiflorum	12.00 to 15.00	12.00 to 16.00
Lilies, Speciosum	8.00 to 10.00	8.00 to 10.00
Callas	12.00 to 20.00	12.00 to 25.00
Freesia	2.00 to 4.00	2.00 to 4.00
Roman Hyacinths	1.00 to 3.00	1.00 to 3.00
Stevia.....	..... to .....	..... to
Marguerites	1.50 to 2.00	1.00 to 2.00
Lily of the Valley	2.00 to 4.00	2.00 to 4.00
Snapdragon	8.00 to 25.00	8.00 to 25.00
Violets.....	.40 to .75	.40 to .60
Narcissus	6.00 to 7.50	6.00 to 7.50
Calendula	3.00 to 6.00	2.50 to 6.00
Sweet Peas	1.50 to 5.00	1.00 to 5.00
Gardenias	25.00 to 50.00	25.00 to 50.00
Adiantum.....	..... to 1.00	..... to 1.00
Smilax	15.00 to 20.00	12.00 to 20.00
Asparagus Plumosus, & Spreng (100 bunches).....	20.00 to 35.00	20.00 to 35.00

Zech, four years ago, his interest passed to Mrs. Zech whose death occurred last year. From the first Allie was with his father as chief assistant and since his death he has had entire charge. The firm does a large shipping and local trade, and while not one of the largest, it has built up a splendid business and an enviable reputation for good stock and fair dealing.

ST. LOUIS.

Mrs. Wm. C. Smith, wife of Wm. C. Smith, the wholesaler, is convalescing.

The florists' dance and entertainment on March 4th from present indications will be largely attended. The retailers met Monday night, Feb. 24th, at Knights of Columbus Hall.

NEWS NOTES

Fredonia, N. Y.—The greenhouses of Gilray Brothers in Sheridan were damaged to the extent of about \$1,500 by fire February 13.

Syracuse, N. Y.—Frederick H. Ebeling, against whom a verdict of \$418 in favor of Abram Rynveld and Herman Rynveld of Lisse, Holland, was found, will be supported by the National Association of Seedsmen, who will make a test case against the Bulb Growers association of Holland. Mr. Ebeling refused to pay for cases of tulips which arrived a year ago too late for the fall trade, due to a delay in shipping resulting from the submarine menace.

Chatham, N. J.—With the acquisition of the Samuel Lum property by

Anthony Ruzicka of Madison, extensive improvements to the property and the rose houses located upon it are contemplated by the new owner. The property contains about 16 acres, of which about 50,000 square feet is under glass. Mr. Ruzicka was formerly connected with the Brookside greenhouses.

Boston—Market gardeners and horticulturists from all sections of the state, before the committee on mercantile affairs at the state house last Thursday, opposed the petition of Chief Plunkett of the district police requiring the inspection of hot water heaters and low pressure boilers and the payment of a fee therefor, claiming that its passage would result in scrapping \$100,000 worth of boilers used by market gardeners.

Stratford, Ont.—At a meeting of Grand Trunk Railroad employees for the purpose of organizing an Employees' Horticultural Society, the following officers were elected: Honorary president, J. C. Garden; president, Harry Davis; vice-president, William Osborne; secretary-treasurer, G. F. Nornabell; committee, J. Heideman, H. Barker, H. Wigglesworth, J. Kennedy, W. Carr, W. Babense, J. Peck and A. W. Davis.

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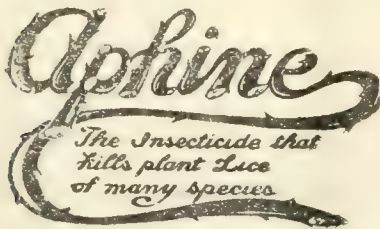
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½ Pint, 30c.; Pint, 50c.; Quart, 90c.;
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The Recognized Standard Insecticide. A spray remedy for green, black, white fly, thrips and soft scale.

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For mildew, rust and other blights affecting flowers, fruits and vegetables.

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For eel worms, angle worms and other worms working in the soil.

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It is used in Machine or Bulb. If too thick for bulb thin with a little Pure Linseed Oil, boiled. So thinned, it can be brushed into any crack or leak, making a solid filling. It makes a solid bed, impervious to moisture, and holds glass in its place, and will stop any crevice or fault. When once set on dry wood it does not heave. As regards the goods, the article is no new invention, but simply an article of the very best class, to do thoroughly good work, like old-time gentlemen expected when sashes were made with lead, and small panes of glass used that caught the water and leaked unless set with an elastic putty, which once set by a mechanic was expected to remain, and did remain in good shape. This Twenlow's Old English Glazing Putty does; nothing more, nothing less. Clean and easily applied.

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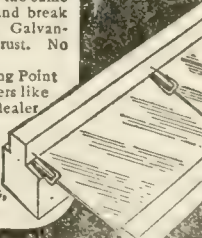
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Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

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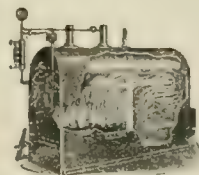


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NICOTINE MFG. CO.
ST. LOUIS

DREER'S "Riverton Special" Plant Tubs



No.	Diam.	Ea.	Doz.	100
10	20 in.	\$3.25	\$37.50	\$287.50
20	18 in.	2.75	30.00	237.50
30	16 in.	2.25	26.00	195.00
40	14 in.	1.90	22.00	168.75
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60	10 in.	.95	10.50	77.50
70	8 in.	.75	8.25	62.50

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ANNOUNCEMENT

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15 Otis Street and 96 Arch Street, Boston, Mass.

In the Heart of the Florists' District

The unusual growth and rapid advancement of our business has made it necessary to make this addition. It has always been our aim to co-operate in every way with every customer we make, and although in some cases there may be some disappointment in our service, we can assure you that with this new addition we shall be able to serve you in a much better way. We realize that it is one thing to get a customer and quite another thing to keep him.

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Pink, White, Yellow, Golden Gate.....	\$25.00 per 1000
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Pink, White, Golden Gate.....	25.00 per 1000
Sweet Peas (very beautiful)	
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Calla Lilies.....	4.00 per 100

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10 inch frame.....	\$10.00 per doz.
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14 inch frame.....	17.00 per doz.

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Tinfoil wrapped. Made of Roses, Carnations, Easter and Calla Lilies, Sweet Peas, etc., including full telescope box. Price, per spray.....\$0.75

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21 x 5 x 3 1/2.....	3.50	16 x 16 x 7.....	9.25
24 x 5 x 3 1/2.....	4.25	18 x 18 x 6.....	9.50
28 x 5 x 3 1/2.....	5.00	18 x 18 x 8.....	10.50
21 x 8 x 5.....	5.00	20 x 20 x 6.....	11.50
30 x 5 x 3 1/2.....	5.40	20 x 20 x 9.....	13.00
21 x 8 x 5.....	5.80	22 x 22 x 6.....	13.00
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30 x 8 x 5.....	8.80		
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19 x 9 x 8.....	10.50
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347-357 Cambridge Street

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BOSTON, MASS.

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HORTICULTURE

Vol. XXIX

MARCH 8, 1919

No. 10

THE NEW POMPON CHRYSANTHEMUMS

CHRISTMAS GOLD NOVEMBER PEARL
BECKY McLANE

THE NEW SINGLES

MRS. E. M. HORNE MOLLY WHITMORE
PEGGY BULKELEY

THE NEW ANEMONES

VOLUNTEER PINK LADY

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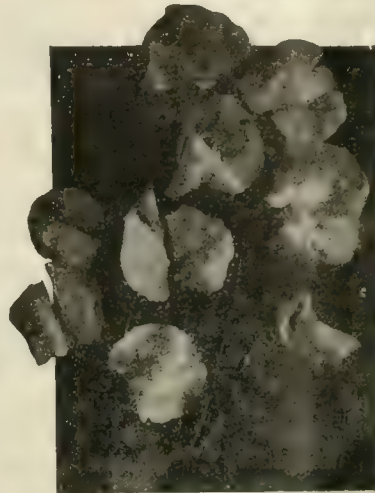
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10-inch 3.00 "

12-inch 5.00 "

Nephrolepis Harrisii, 8-inch 1.50 "

Nephrolepis Muscosa and Smithii:

5-inch75 "

6-inch 1.00 "

Nephrolepis Dwarf Boston, 3-inch..... 1.00 "

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TARRYTOWN, N. Y.

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LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co. 240	Chicago Flower Growers Asso. 235	Graham & Son, A. 233	Lemon Oil Co. 239	Reed & Keller. 236	Stumpp & Wal-ter 218
Allen, J. K. 237	Childs, John Lewis 220	Grakelow, Chas. H. 233	Liggit, C. U. 219	Reidel & Meyer. 236	
American Bulb Co. 218	Clarke, D. Sons. 232	Grey & Co., T. J. 218	McHutchison Co. 229	Reld, Edw. 234	Thorburn, J. M. & Co. 218
American Forestry Co. 229	Coan, J. J. 232	Gude Bros. Co. 232	Marshall, W. E. & Co. 218	Reuter, L. J. Co. 220	Totty, Chas. H. 220
Anderson, S. A. 233	Cooke, Geo. H. 236		McKenzie, John. 233	Rice & Co., Jerome B. 218	Tracy, B. Hammond 219
Aphine Mfg. Co. 239	Conard & Jones. 229		Michell, H. F. Co. 230	Robinson, Henry M. Co. 236	
	Cowee, W. J. 236	Hammond Paint & Slug Shot Works 239-240	Michigan Cut Flower Ex. 234	Robinson, H. M. & Co. 234	United Cut Flower Co. 236
Barrows, H. H. 220	Craig, Co., Robt. 219	Hart, Geo. B. 234	Millang, Chas. 237	Roehrs, J. Co. 220	
Bayersdorfer, H. Co. 234		Heistad, H. 240	Muller-Sealey Co. 219	Roland, Thomas. 233	Vincent, R., Jr. & Sons Co. 217
Bay State Nurseries 220	Danker 232	Henderson & Co., A. 234	Murray, Samuel. 232	Rosery, The. 232	
Bobbink & Atkins 219	Dards 232	Heutz & Nash. 237		Schwake, Chas. Co. 219	Wants, For Sale, etc. 238
Boddington Co., Inc., A. T. 231	Dreer, H. A. 220-239	Hess & Swoboda. 233	National Nurseryman 229	Sekenger, Adam. 232	Warburton 233
Boligiano & Son. 218	Dunlop, John H. 233	Hews & Co., A. H. 238	Nicotine Mfg. Co. 240	Sheridan, W. F. 236	Weber, F. C. 233
Boston Floral Supply Co. 236	Dysart, R. 236	Hill Co., E. G. 234	Niessen, Leo Co. 234	Siebrecht, Geo. C. 236	Weiss, Herman. 236
Breck, J. & Sons. 218	Edwards Folding Box Co. 234	Hill, D. Nursery Co. 229		Siggers & Siggers 239	Wilson 232
Breck-Robinson Co. 219	Elm City Nurseries 220	Irwin, R. J. 218	Palmer, W. J. & Son 233	Skidelsky, S. S. & Co. 218	Wood Bros. 233
Breitmeyers, J. Sons 232		Johnston Bros. 232	Park Floral Co. 233	Smith, Elmer D. & Co. 229	Woodmont Nurseries 220
Budlong, J. A. 234	Farquhar, R. & J. Co. 218	Kasting, W. F. Co. 234	Parselsky Bros. 240	Smith, W. & T. Nursery Co. 229	Woodruff, S. D. & Sons 218
Bunyard, A. T. 232	Fengar, E. W. 219	Kelway & Son. 218	Penn the Florist. 232	Smith, The Florist 233	Young, A. L. 236
Burnett Bros. 218	Ford, M. C. 236	Kervan Co. 236	Pennock, S. S. Co. 217	Smith & Feters Co. 233	Young, John. 236
Burpee, W. A. & Co. 218	Ford, W. P. 236	Knoble Bros. 233	Pierce Co., F. O. 240	Smyth, Wm. J. 233	Young & Nugent. 232
	Froment, H. E. 236	Kroeschell Bros. 240	Pierson, A. N. 217	Stumpp, G. E. M. 232	
Carte's Tested Seeds, Inc. 218	Galvin, Thos. F. 233	Kuebler, W. H. 236	Pulverize Ma-nure Co. 239		Zech & Mann. 234
	Gasser Co., J. M. 233	Kottmiller 232	Randalls Flower Shop 233		

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Horticulture

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Bridesmaid (Tall). White, with large crimson-carmine centre.

Champs Elysee (Dwarf). A very bright rosy magenta.

Eclairer (Tall). Brilliant rosy magenta, with large lighter halo.

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Rynstrom (Medium). An improved form of the popular variety Pantheon; fine for massing, of a Paul Neyron Rose color.

Von Lassburg (Medium). The purest white in cultivation, individual flowers larger than any other white.

Price: Any of the above varieties except where otherwise noted, 85 cts. per doz.; \$6.00 per 100; \$50.00 per 1000.

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Miss Lingard. This grand free flowering white variety is a universal favorite, coming into flower in May; it continues in flower throughout the season. \$1.25 per doz.; \$8.00 per 100; \$70.00 per 1000.

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W. C. Egan (Medium). One of the finest Phloxes yet introduced, and while the individual flowers according to the color-chart are of a delicate lilac color illuminated by a large bright solferino eye, the color effect as a whole is a delicate pleasing shade of soft pink. \$1.00 per doz.; \$6.00 per 100.

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When writing to advertisers kindly mention HORTICULTURE

SWEET PEAS

Where soil and weather conditions will allow, this is the logical month to sow Sweet Peas in the open. The florist who makes a specialty of this crop for cutting will now have the plants well under way in three or four inch pots in cool greenhouse or coldframe. I find that I get best results by sowing the seed in a cool greenhouse early in January, and taking advantage of mild weather in late February remove the pots into sheltered coldframes where if carefully covered for a night or two until they become accustomed to the change in temperature they are practically safe. The pots are then transferred to a well prepared ground in late March or not later than the first week in April if at all possible.

By using the new Early Spencer and the regular summer-flowering types, these plants begin to bloom in late April, or at least in early May according to the season, and last year we had first-class flowers right up to the end of July. This may seem a comparatively short season to our northern growers, but we consider we are doing well in this section when we can cut Sweet Peas in the open up to the end of July. By using the two types the flowering season is augmented as the Early-flowering Spencers even when sown direct in the open ground during the spring will flower two to three weeks ahead of the regular, or standard summer-flowering Spencers.

Among the best varieties for cutting of the summer-flowering type it is questionable if there is anything to beat Elfrida Pearson, light pink Hercules, deep pink; King Edward Spencer, crimson; Vermilion Brilliant, crimson-scarlet; Wedgood, blue; Margaret Madison, silvery-blue; Orchid, lavender; Margaret Atlee, rose-pink, on cream; The President, orange; Thomas Stevenson, orange-pink, and King White.

Among the new early-flowering Spencers the following have done specially well with me in the open. Early Primrose Beauty, cream flushed rose; Early Improved Snowstorm, pure white; Early Pink Beauty, Early New Fordhook Rose, Early Sunburst, Early Daybreak, Early Blue Bird, and Early King.

Geo. W. Kerr



A SPRAY OF WINTER FLOWERING SWEET PEAS.

NEW WINTER FLOWERING SWEET PEAS

An interesting exhibit of new and improved winter flowering sweet peas, mostly of the orchid and grandiflora types like Yarrowa, was made by Burpee's expert, George W. Kerr, at the meeting of the Philadelphia Florists' Club, March 4th. The collection excited great interest and the opinion was freely expressed that the showing was an evidence of a good stride forward in this now important winter cut flower. Among those exhibited the following were especially noticeable: Fire King, Dazzler, **Illumination, Mauve Beauty, Early Lustre, Early Enchantress, *Blue Bird, *Early

Daybreak, Gypsy Maid, Early Daintiness, Cherry Ripe, Early Exquisite, Early Loveliness, **True Blue, *Snowstorm, *Zephyr, Gorgeous, Glorious.

Those marked with a star were judged by many to be especially fine; those with a double star were thought even more noteworthy. G. C. W.

FERTILIZERS STILL HIGH

Commercial fertilizers are not going down in price this season, warns A. R. Whitson of the soils department of the Wisconsin Experiment station, because the manufacturers have already put in their stock at high prices, but the intelligent use of commercial stuff to supplement the staple, manure, is still a paying proposition.

In the 1918 field tests carried on by W. W. Weir, 300 pounds of acid phosphate to the acre increased the yield of oats 18 bushels on excellent prairie loam in Iowa county, says Mr. Whitson. The soil was so good that, unfertilized, it yielded 69 bushels of oats to the acre, but fertilizer paid its way by bringing the yield up to 87 bushels. On the same kind of soil silage corn yielded 15.8 tons instead of 8.7 tons, when 125 pounds of acid phosphate was drilled in with the corn.

At Hancock, a field without fertilizer yielded 18 bushels of corn to the acre. On clover soil fertilized the previous year and again fertilized for corn, the yield was 55 bushels. Potatoes on clover sod, without fertilizer, yielded 89 bushels; with fertilizer, 120 bushels.

HORTICULTURE

VOL. XXIX

MARCH 8, 1919

NO. 10

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One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To
 Canada, \$1.50.

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CONTENTS

	Page
SWEET PEAS— <i>Geo. W. Kerr</i> —Illustrated.....	221
IN MEMORIAM	223
SOCIETY OF AMERICAN FLORISTS—National Pub- licity Campaign	225
QUARANTINE REGULATION NO. 37.....	227
CLUBS AND SOCIETIES:	
Gardeners' and Florists' Club Victory Banquet—Ill- inois State Florists' Association—Connecticut Nur- serymen's Association—Pennsylvania Horticultural Society	228
Club and Society Notes.....	224
THE ONION MAGGOT— <i>J. G. Sanders</i>	230
OF INTEREST TO RETAIL FLORISTS:	
Flowers by Telegraph.....	233
New Flower Stores.....	233
FLOWER MARKET REPORTS:	
Boston, Chicago, Cincinnati, New York, Rochester, St. Louis	235
LOCAL AND GENERAL NEWS:	
Boston	227
Chicago, Rochester, Philadelphia.....	237
OBITUARY:	
George T. Earle—Gustav Poehlmann.....	237
MISCELLANEOUS:	
New Winter Flowering Sweet Peas.....	221
Fertilizers Still High.....	221
Farmers' Week in Massachusetts.....	224
News Notes	227
Can the United States Grow its Own Fruit?.....	229
Protest Against the European Corn Borer Quarantine	229
Catalogues Received	230
Visitors' Register	233
New Corporations	235
A Patriotic Appeal.....	238
Publications Received	238
Greenhouses Building or Contemplated.....	239

from Formosa will be of particular interest, since he is the first white man who has explored the higher interior mountains and high sea-cliffs. No plants from these tropical altitudes so far as we know have ever before reached civilization.

Business in all lines of horti-
 Business improvement cultural trade is improving rapidly. During the past week the seed business has been very active. Nursery orders are also coming in in good volume and what is still more encouraging there are numerous inquiries for landscape construction, with enough already booked to occupy the early part of the season.

We learn from Belgium that
 What Belgium says azaleas are the only plants which remain in that country. No other plants could be kept in good condition during the war. The prices for next fall if permitted entry to this country will be about double those quoted in 1914. This is due to an increase of about two hundred per cent in the cost of labor and about one hundred per cent in cost of fuel, fertilizer and other materials. The Belgian government is making strong representations at Washington through diplomatic channels against the plant embargo which would be a hard blow to Belgian growers, who "through four long years of all kinds of endurances and hardships which they had to bear from their German oppressors, had every day more courage because they knew that the sympathy of the world was with them."

An appeal direct to D. F.
 Will the plant embargo Houston, Secretary of Agri-
 be rescinded? culture made in the early part of this week, by nursery and florists' organizations, against plant exclusion as ordered in Quarantine 37 may result in this unwarrantable and ill advised quarantine being rescinded. The committee representing the nurserymen and florists contended that the Federal Horticultural Board had exceeded its authority, that Congress did not authorize the exclusion of all plants from all countries as Quarantine 37 with a few exceptions does, but only such plants as actually brought insects or fungi known to be dangerous or plants from little known countries. The committee contended that England, Holland, Belgium and France could not be classed as little known countries and should not be included in any quarantine. The committee look for favorable action by Secretary Houston, failing which the matter will be brought before Congress at its next session. Florists and nurserymen will offer no objection to proper restriction where there is real necessity for such, but they will not look on supinely and see their business destroyed by such unjustified and disastrous measures as are now imposed upon them by the Federal Horticultural Board.

Home again Mr. E. H. Wilson of the Arnold Arboretum arrived in San Francisco, last Saturday, after having spent two years in Korea, Japan and Formosa collecting new plants. Mr. Wilson has found and brought back many promising new things especially in conifers. His new introductions

IN MEMORIAM

The death of William J. Stewart is very generally regretted among the trade in New York to whom he was endeared through an association extending over a very long period. His bright and cheering personality will be greatly missed, as well as his assistance and counsel in our trade projects.

During my personal acquaintance of thirty years or more with Mr. Stewart, I have had ample opportunity to realize his sterling worth as a man of forceful character, and his unceasing devotion to the industry with which he had been connected since boyhood will become a memory long to be cherished. Kind of heart, ever ready to render assistance when assistance was required, many among us will mourn his loss as that of a most sincere friend and fellow worker.

During his long term of office as secretary of the S. A. F. and O. H., and finally as its president, he distinguished himself as one of the mainstays of the organization who carried the Society forward for many years. An active member of the New York Florists' Club for over 22 years, his presence at the meetings and functions of the Club was ever welcomed, and among the Club's members his death will be deeply deplored.

Speaking generally, it might well be said that the florist industry can ill afford to lose such a man as William J. Stewart.

JOHN YOUNG.

New York.

It is with the deepest sorrow we learn of the passing away of Wm. J. Stewart.

The profession loses one of its leading men, a lovable nature, kindly character, honored by all who knew him, always courteous and thoughtful, particularly to those who were not as high up in the business world as he was, this to my mind was one of the best of his many good traits.

Well do I remember years ago when only a beginner, going to Boston, how cordially I was welcomed by Mr. Stewart, almost a stranger to me, his encouragement and offer of help was one of his many ways of endearing himself to those with whom he came in contact.

Who in our profession has had more genuine life-long friends than he? I have felt it was an honor to be numbered among them.

His editorials in HORTICULTURE were from the pen of a master mind, full of thought, high ideals, inspiration and, above all, good common sense; always interesting, often with a lesson not soon to be forgotten.

We, his friends, feel deep regret and personal loss because of his passing, but we also feel that our loss is his eternal gain.

Philadelphia. S. S. PENNOCK.

In earlier days the writer saw and knew more of the late William J. Stewart, than in these later years, when circumstances have contributed to keep us apart.

The writer will always cherish a warm regard for your departed Editor on account of his chivalric recognition of the ethics of newspaperdom for such rivalry as there may have been between us was always carried on in a manly way by friend Stewart.

Years ago his genial character and sincere regard for his personal friends had notably impressed the writer. He had my warm sympathy in his sufferings and I hasten to pay this tribute to his many endearing qualities of mind.

A. T. DELAMARE.

New York.

About thirty-five years ago I went to Boston, almost a stranger to the town, was introduced to Wm. J. Stewart, and was received with most unusual kindness and courtesy, he practically set his own business aside for two days to show me the places of interest and to make me acquainted with the active men in horticulture, many of whom became valued friends of mine. I will never forget his extreme kindness on that and subsequent occasions: when I came to know him better, I learned that this persistent unselfishness was a part of his nature and that he made, constantly, these sacrifices for the benefit of all he came in contact with. He was a horticultural enthusiast and a clever writer, his editorials on matters connected with horticulture were the best of recent years. Boston has met with a great loss and the whole country will suffer by his death. His services to the S. A. F., as president and secretary gave him great influence in horticultural circles. He had hosts of friends in every state in the union who all sincerely regret his passing away.

ROBT. CRAIG.

Philadelphia.

Although not unexpected the news of the passing of our friend William J. Stewart came as a shock. The deceased fellowman had been for many years one of our leading horticultural lights in Boston, he was not merely a floriculturist although very closely identified a large part of his life with flowers and flower growers, but had a broad and comprehensive grasp of horticulture in all its branches. The writer recalls with pleasure and gratitude a very delightful afternoon spent with Mr. Stewart last fall at his Winchester home. Physically he was far from well, but his intellect was undimmed and the enthusiasm he showed when pointing out the many unique and interesting plants in his tastefully planted garden, and later in the day when examining some of his treasured works on horticulture, of which he had a very fine collection, will long live in my memory.

Few men in our time have filled so large and important a part in helping to advance the horticultural interests of America, and would that he could have been spared to us longer, for we need men of his vision to help steer our craft through troublous waters.

WILLIAM N. CRAIG.

Brookline, Mass.

Again are we called to note the departed friend! Again are we reminded that our stay here is relatively brief. It seems but a short time since I first met William J. Stewart, and yet it was a goodly forty years ago. Then he was a commission dealer in flowers on Park street, Boston.

His friends were near and dear to him, and found in him a ready champion.

In horticultural matters he was one of the pioneers in many branches.

As an executive, he showed himself ready, able, diligent, well up in his work and to his associates must have been a helper in the true sense of the word.

As a writer he showed himself forceful, clear, terse, presenting his views in a manner easily comprehended.

While the trade papers pertaining to subjects horticultural have advanced by leaps and bounds within the ten years last past, I know of no other writer who has scented and pointed out spots and features to be avoided, who has made and offered

more valuable commercial suggestions to horticulturists than has our departed friend in his time.

Nashua, N. H. C. W. HOITT.

No one looms higher as a practical mover in the onward march of horticulture than the late William J. Stewart. Like his compatriot, Jackson Dawson, he would wade through the woods for a chance to find a new flower. And we must number him among the Endicotts and Faneuils and Fessendens, and down to the later celebrities like the Brecks, the Hoveys, the Richardsons, the Olmsteads, the Wilders and many others whom I don't think of for the minute.

Wm. J. Stewart did much to advance horticulture by precept, by example, by tongue and pen, and more than all by his wonderful personality. My personal and business intercourse with him started thirty-five years ago, and during all these years my esteem and admiration for him has held constant and ever-increasing. The world has lost a great man, whose good deeds will live long after him and whose small human failings are already forgotten. All honor to his memory.

GEORGE C. WATSON.

Philadelphia, Pa.

In the passing away of our long and time honored friend (Wm. J. Stewart) I feel that I, who have known him a lifetime, have lost one of my oldest and best friends, and that the horticultural world has lost one of its most capable and enthusiastic workers, a lover of his profession, one who was always up and doing.

JOHN WESTCOTT.

Philadelphia.

We pass through this life but once. W. J. Stewart, my dear friend, has passed. That kind heart and brilliant mind is stilled forever. I loved him and he knew it and gave him my love unto the last. I will cherish forever his memory, but shall miss his kind personal letters.

SAMUEL MURRAY.

Kansas City, Mo.

Very keenly I feel the loss of my old friend Mr. Stewart. Our friendship dates back over thirty years and has been most pleasantly maintained during these years.

He has borne his illness with courage and patience, always hoping that he might be able to resume his work, but it was otherwise willed.

You will miss him as well as

Yours sincerely,

WALTER F. SHERIDAN.

New York.

Our dear friend is no more. William J. Stewart has gone to his reward—no more can we have his cheery, kindly welcome when visiting in Boston, and his country which he loved is poorer for his going.

He did more for horticulture than any man that I know of. And as a worker he had the gift of organizing and setting other people to work—well we remember making a trip to Providence over 20 years ago—it was in early summer, to make arrangements for the annual convention of the S. A. F., no detail was overlooked, everything arranged.

In his writings he was ever the champion of the right—as he saw it, and his judgment was good.

His friendship was enduring—true as steel. The impress of his life remains with us as a benediction—a happy memory.

We would not rob him of his rest
Nor hold him back from laurels won,
God knows, what is, for us the best
We bow to Him, His will be done.

ALEXANDER MACLELLAN.

Newport, R. I.

I am much grieved at the passing away of Mr. Stewart. He was a kindly, genial and courteous gentleman.

He was good to others, and I trust that our dear Lord has been good to him.

I can well understand how those who have been associated with him will miss him.

REV. T. P. LINEHAN,

St. Mary's Rectory,

Biddeford, Me.

CLUB AND SOCIETY NOTES.

The St. Louis Retail Florists' Association met at Knights of Columbus Hall, Monday evening, Feb. 24, and the following officers were elected: F. C. Weber, Jr., president; Andrew Meyer, vice-president; Oscar Ruf, secretary; A. Hoffmann, treasurer, and Fred Hermann, sergeant-at-arms.

The St. Louis Florists' Club will meet Thursday, March 13th, at Jules Bourdet's place. A carnation and miscellaneous flower show will be staged and all outside growers are invited to show new varieties. A special prize of box of cigars by President Hummert, termed the attendance prize, will be given, also a fine lunch to the members.

The Newport Horticultural Society Tuesday evening, Feb. 25, listened to several papers, among them one on "The Value of Scientific Training in Horticulture." Schedules for the spring and autumn shows were approved. Mr. James Cooper, gardener for Mrs. Theodore K. Gibbs, exhibited a number of Roman hyacinths, and Mr. William McKay, gardener for Mr. H. A. C. Taylor, specimens of Spanish iris.

FARMERS' WEEK IN MASSACHUSETTS

Massachusetts will have its annual Farmers' Week at the Massachusetts Agricultural College from March 17 to 22 inclusive. The "week" has always been well attended, even during those years when things seemed to be going smoothly and there was comparatively little to talk about. But this year will probably see the most important Farmers' Week that has been held for a long time. Everyone who tills the soil has recognized the importance of the many agricultural problems that have come out of war conditions; problems that have introduced entirely new conditions and situations. That we cannot go back to old conditions, or that we should not want to, is obvious, for the past three years has advanced agriculture more than any other one thing that has happened in all of our history. But just how much of this progress can be maintained, and how best to go about it, are very vital problems that demand careful and thorough discussion.

This is the keynote of the tenth annual Farmers' Week in Massachusetts. It will not be a meeting for college people alone or for any other one class, but will be given as an open meeting for everyone who is interested in agriculture or allied activities. The week will be filled with lectures, demonstrations and discussions, given by some of the biggest men in the country in their respective lines and on subjects which will touch the interests of every farmer at some point. For the sake of convenience, the various interests will be divided into sections as follows: horticulture, home economics, suburban interests, the experiment station and the extension service. Each section will have more or less continuous meetings throughout the week so that even in the case of a farmer who is confining his operations to only one specialty, he can attend the section in which his interest comes and give the whole to it. In such a case, he will find that leaders in his particular field of activity will be present to give lectures, forward opinions and lead discussions, all with the future of the business particularly in mind.

Besides the meetings during the day, each evening will be given over to a general meeting in the large college auditorium at which there will be motion pictures of interest, and lectures by prominent men and women, some of whom include: Frank A. Waugh, Capt. U. S. Sanitary Corps; W. J. Spillman, formerly of the U. S. Department of Agriculture; Professor G. H. Blakelee of Clark University and others.

The complete programs are now ready and will be mailed upon request to the Extension Service, M. A. C., Amherst, Mass.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

NATIONAL PUBLICITY CAMPAIGN.

When the Publicity Committee and the Finance Publicity Committee met in joint session at the end of January, the financial status of the campaign was thoroughly discussed, expenditures minutely examined, and everything found in first class shape. All accounts had been audited by a firm of certified accountants, and were approved by the committees. The committees did not appoint an audit committee from their own body, it being decided that as the campaign was conducted under the auspices and direction of the S. A. F. and O. H., the official audit should be made by a committee to be appointed by the society's executive board which was to meet next day at Detroit. The secretary was directed to prepare and send to every subscriber, as soon as possible, a summarized report covering receipts and expenditures.

At the meeting, also, an appropriation of \$20,000 was made to cover the magazine advertising for the spring season a schedule of which has already been published in the trade papers; and the P. F. O'Keefe Advertising Agency, of Boston, was given a contract for the preparation and placing of the campaign advertising for the year 1919. The meeting was characterized by a feeling of great optimism as to the campaign outlook for the year, as was demonstrated in the decision of the committees to set \$100,000 as the amount of the fund to be aimed for this year.

Publicity and the S. A. F. Executive Board.

The enthusiasm of the Publicity Committees was echoed at the meeting of the Executive Board of the S. A. F. next day at Detroit, when the subject matter of the Publicity Campaign came up for discussion. Never in the history of the board was such interest shown in a particular phase of the society's work. So enthusiastic were the members of the board that, although liberal subscribers annually to the Publicity Fund, they added in the aggregate \$2065 to their 1919 subscriptions after the reports of the committees and secretary had been read and discussed. The accounts in the secretary's report, in accordance with the recommendation of the Publicity Committees, were presented to the Board with the request that the board appoint a committee from its members to audit the same, and such committee being appointed the report was made that the same were correct in every way, and commendation was due for the accuracy and neatness with which the same were presented.

Publicity Committee's Report.

The report of the Publicity Commit-

tee was presented by Chairman Henry Penn, and was as follows:

The first twelve months of the national publicity campaign of the Society of American Florists have passed and if any doubt existed before we entered upon it, I feel that I voice the sentiments of not only the members of the Publicity and Finance Committees, but those of every progressive up-to-date man in the country, who is engaged in the growing and selling of flowers when I make the statement that it has greatly exceeded our expectations.

Despite the obstacles which every business had to contend with during the past year, and particularly those encountered by the florists, we should feel greatly pleased that we launched the campaign when we did.

I have talked with many florists located in different parts of the country, and the almost universal opinion has been that their business was better than ever before. Granting that this is so, let us consider the coal curtailment which was faced, other contingencies due to the war, and the fact that flowers were in the so-called luxury class; and then if the Publicity Campaign did nothing more than to keep business normal during the trying year just passed, the Society has taken a great step in advance.

We had planned to expend \$50,000 during 1918, and this amount was to cover every expense. Adverse conditions, however, prevented raising the full amount, but taking everything into consideration, we believe that the sum raised was very satisfactory.

Mr. Young, our Secretary, will give in his report the exact sum raised and expended, and you will see by this, that during the year, we used for advertising in the national mediums less than \$30,000, the balance of the expenditure being used for the work of the Promotion Bureau in New York, printed matter and other incidentals; and right here, I want to pay tribute to the wonderful work accomplished by the Promotion Bureau under the direction of Mr. John Young. Headquarters have been established in New York where the florists of the country who visit New York can transact business, obtain information and keep in touch with business generally. Hundreds of columns of reading matter have been obtained in the newspapers and magazines of this country absolutely free, and every co-operation extended to help build up our business.

The trip of Mr. Young from coast to coast, not only increased subscriptions to the Publicity Fund, but tended to keep the florists of the country in closer touch with each other and with their business. I believe that on his trips he also obtained new memberships for the society to the number

of several hundred, which in itself, is quite an achievement. His work in enlisting the co-operation of the Red Cross Society was a great gain for our industry, and taking it all in all, I feel that the close co-operation of the Promotion Bureau with the Publicity Campaign has been the means of placing our business on a higher plane than ever before.

Now that conditions in business are approaching normal, it seems to me that not only should we have a Publicity Fund of \$50,000 per year, but it should be closer to \$100,000, and if the florists of this country will only realize the possibilities for more business, I feel sure they will, I believe that subscriptions will increase as time goes on.

As some members may possibly think that this national advertising is expensive, I call your attention to one item as showing how little it does cost in comparison with the results accomplished.

For instance, we expended about \$20,000 during the spring season of 1918, and about \$10,000 during the fall season. Let me dwell for the moment upon the fall expenditure of \$10,000, and permit me to tell you that for that \$10,000, we appealed to over ten million readers of the national magazines at a cost of less than one-tenth of a cent per person. Just compare this with any form of direct contact that you can think of and realize how much more inexpensive are the results obtained through the medium of the national campaign.

As we were somewhat delayed in getting the Finance and Publicity Committees together to consider the 1919 campaign, it was decided that during January and February of 1919, we should concentrate our advertising efforts upon our slogan, "Say it with Flowers," and with this idea in view, we are inserting this slogan during January and February in practically every magazine of prominence in this country. We are using small space it is true but we are obliged to do so on account of the fact that we did not want to expend more than \$5,000 during the entire two months, and felt that if we could impress our slogan "Say it with Flowers" upon the minds of over eleven million people during these two months, that we would be helping all future publicity work tremendously, because, after all, to my mind, this slogan, "Say it with Flowers," is one that is worth a great deal to the florists of this country, and the more we can make people remember and think of it, the more business will it make for us all.

It is regrettable that so few of our members have contributed to the publicity fund, and yet we are enabled to participate in the benefits of this cam-

paign, and I hope that as this time goes on we will find some method of educating the public to patronize those retail florists who display the sign "Say it with Flowers" just as the United Cigar Stores and other institutions are enabled to direct people to their establishments.

In closing, I wish to repeat what I have said before, that I believe one of the best things we have done as business men during my connection with the Society of American Florists, has been the carrying on of this publicity campaign, and I feel that its benefits will become more evident and that we will all be glad to be identified and have it known that we are engaged in the business that we all love so well.

Mr. Penn then announced the decision of the Publicity Committees to make an effort to raise \$100,000 this year for the Campaign Fund.

Report of Publicity Finance Committee.

Chairman George Asmus of this committee reported as follows:

I am going to make some remarks verbally, and ask the secretary to substantiate them from the records. You have heard from Mr. Penn that there has been given to this committee the task of collecting \$100,000. It will be a big job; but I think we can do it. Had it not been for the unusual condition experienced in October, there is not a doubt in my mind that I would have pulled over the \$50,000 campaign as we figured, and which we came close to doing. I am going to report to you that yesterday we again contracted with the O'Keefe Agency to carry on our work for the coming year; and we have appropriated the sum of \$20,000 to start this work. The report of the secretary will show you how the people of this country have appreciated this publicity by coming across with their second subscriptions, and you will hear some of the nice things that have been said by the people that did come across.

I want to ask the presidents of the affiliated organizations in this Board to take every opportunity to spread the gospel of publicity, and get contributions from every brother florist in their communities to carry on this important work. I want to impress that upon the various officers of the organization who are a power in their communities and in their organizations.

It is true that in some instances wonderful work has been done; but in other cases we have met with a very lukewarm reception. Of course, the plan that we adopted of sending the Secretary about the country is possibly the greatest thing that we did. In considering it among ourselves we figured that the average cost per day in traveling expenses of the man who went out—Mr. Young accepted this job—would be from \$10 to \$15 a day. Mr. Young will substantiate what I am telling you now, that there were but very few days that we did not average from \$200 to \$400, and in some instances \$600 a day receipts. Now any ordinary merchant in selling goods has to figure on a margin of about five or six per cent profit, or perhaps ten per cent on his merchandise, and he thinks that does not seem much. But we have realized one hundred per cent. If the Secre-

tary went into a town and secured the membership of but one man who signed up for \$10 for four years, that meant \$40 collected from that man; and if he secured \$500 or \$600 worth of subscriptions—which in many cases he did—you should multiply that by four years. Another thing that he did was to get the money for the first year's subscription right then and there, which saved our committee a lot of expense and trouble.

It must have been surprising to you gentlemen when you heard the Secretary's report read to see what a large percentage was sent in of the amounts subscribed. He started out receiving voluntary subscriptions, not money; but those subscriptions were all collected within a few hundred dollars of \$45,000 subscribed, which was almost marvelous considering the financial condition of most florists before the turn for the better came, and when the results of our Publicity Campaign showed up this year.

Now this year we are going to aim at a higher goal. Everybody is interested in our object; we have a wonderful article to sell, and at cheap prices. The talking points are so numerous and so good that every one of you gentlemen can well feel proud to talk about them. Everything connected with this Publicity Campaign is above reproach. The expenses connected with the work have been as nothing when compared to the gratifying results obtained. The man who subscribes \$100 a year and pays \$8 a month, or \$2 a week, most likely may be a man that is doing one hundred thousand or one hundred and fifty thousand dollars' worth of business. Just think how little he is paying, yet how much he is doing; but the great thing is that we are trying to get everybody to pay their just share. It is indeed unfair to expect some big-hearted man in this country, like Philip Breitmeyer, for instance, to subscribe \$500 to this fund, unjust in proportion to what some of the other men who are supposed to be good florists are doing. Some do something and others very little. It seems to me that we ought to seek to find some means whereby everybody shall participate to the same extent as Mr. Breitmeyer does in that fund, or in proportion to their means. This trip of the secretary has given us a further opportunity. Taking the state of California, before Mr. Young visited there he had committees appointed in every section. I had the state vice president suggest the names, and we tried in every way to get the livest wires possible, men who had been former officials and correspondents; and the first trip of the secretary around the country proved its real benefit by putting the question to men direct, shaking them by the hand, and, in nine cases out of ten, getting their subscriptions. We hope to get the secretary on such a trip again, to interest the California section of the country, because we have only scratched the surface. For that reason I do not think our committee will hesitate to say that we are going to increase the fund to \$100,000. We expect all of you gentlemen to be mouth-pieces when ever the secretary gets into your neighborhoods. We want you to turn out and help him, because he is doing

your work, and I hope he will meet with the response from all of you and that you will all help us in this task because it is some task to collect a hundred thousand dollars.

The Secretary's Report.

Secretary Young then read the figures of receipts and disbursements, accompanying the same by comments on various items, stating that much of the money had been received since the first of the year, and that he did not believe that there would be more than \$200 or \$300 that would not be collected, and that from the replies that he had received from subscribers he believed they would probably pay two subscriptions at the same time. He stated that a great deal of the postage had been incurred in sending out "Dealers' Helps," which postage naturally ran into an enormous amount of money, the postage rates having been increased; but the "Dealers' Helps" had paid expenses and showed just a little profit. It was the intention of the Publicity Committee to make no profits on these "Dealers' Helps," but it was required that they should pay their way. The more florists could be induced to use stickers, glass signs, and so forth, the better help it would be to general business. In addition to the financial report the secretary read the report of the certified accountants, Edwards & Bouton.

Practical Enthusiasm

It was after the reading of the reports that the directors showed the real enthusiasm before noted, and one after another added sums to their 1919 subscriptions until the amount previously mentioned was reached.

Philip Breitmeyer's Views

Philip Breitmeyer, of Detroit, said, in a hearty endorsement of the campaign: "I feel that our slogan is the most wonderful thing that has ever been introduced in the florists' business or any other business. To 'Say It with Flowers' is just exactly what everybody wants to do. The florists' business has been increased, as you know, since this slogan has been adopted, fully 25 per cent. The business has been in a state of quiescence; had not been doing anything in the way of its advancement for the past fifty years. It seems to me strange that just at this time, when the people need awakening, this should come to us and should prove such a tremendous success. I, for one, am very grateful that this suggestion has been made to us, and its good effects are going to continue, I know, and will mean prosperity which we older florists never dreamed of. I class myself as one of the older florists because I have been in it some forty years. The last two years have brought about, by this slogan, more business for the florists than I ever dreamed was possible. I hope every florist in the country, not simply those who are here, shares in the sentiment of gratitude that I have given expression to, and will contribute to the cause which, in my opinion, is a privilege, not only the advertising but the privilege of tying up with and working with it to make this business of ours ten times what it has been in the past.

The following subscriptions have been received and are in addition to

those previously announced, annually for four years unless otherwise stated:

For Four Years—Lorgus Company, West Chester, Pa., \$20; G. C. Switzer, Frankfort, Ind., \$5.

For One Year—Stubbs Nursery Co., Augusta, Ga., \$10; W. H. Kuebler, 28 Wiloughby Ave., Brooklyn, N. Y., \$15; Chicago Carnation Co., Chicago, Ill., \$100.

Second Subscription—Emil Glauber, Denver, Colo., \$45; Robert Miller, Farmington, Utah, \$25; Elmer J. Weaver, Rinks, Pa., \$30.

Additional subscriptions made at the meeting of the Board of Directors, S. A. F. & O. H., Detroit, Mich., January 31-Feb. 1, 1919. These subscriptions in many cases doubled the amounts these gentlemen had already subscribed for 1919; the others added the amounts designated to their previous subscriptions:

C. E. Critchell, Cincinnati, O., \$100; Joseph H. Hill Co., Richmond, Ind., \$50; Joseph A. Manda, West Orange, N. J., \$50; C. H. Totty, Madison, N. Y., \$100; Henry Penn, Boston, Mass., \$100; Hess & Swoboda, Omaha, Neb., \$100; Schiller's, Chicago, Ill., \$100; Chas. J. Graham, Cleveland, O., \$50; Zech & Mann, Chicago, Ill., \$50; Philip Breitmeyer, Detroit, Mich., \$500; Chas. S. Strout, Biddeford, Me., \$15; Benj. Hammond, Beacon, N. Y., \$50; Alban A. Harvey & Sons, Brandywine Summit, Pa., \$40; Philip F. Kessler, New York, \$50; W. R. Nicholson, Framingham, Mass., \$25; George B. Arnold, Woburn, Mass., \$25; E. Allan Peirce, Waltham, Mass., \$25; W. J. Palmer, Buffalo, N. Y., \$100; J. Fred Ammann, Edwardsville, Ill., \$100; E. A. Feters, Detroit, Mich., \$75; S. S. Pennock Co., Philadelphia, Pa., \$150; C. C. Pollworth, Milwaukee, Wis., \$50; J. F. Sullivan, Detroit, Mich., \$50; August Hummert, St. Louis, Mo., \$25; Bertermann Bros. Co., Indianapolis, Ind., \$50; R. C. Kerr, Houston, Tex., \$35.

Total, \$2,315.00. Previously reported, \$29,906.50. Grand total, \$32,221.50.

JOHN YOUNG, Secy.

March 1, 1170 Broadway, N. Y.

NEWS NOTES

Red Oak, Ia.—The Red Oak Greenhouses have been purchased by C. F. Smith.

New Rochelle, N. Y.—F. J. Chapman has taken over the range of houses at Mayflower and Pershing avenues, formerly conducted by J. Hitchcock.

TREES, SHRUBS, VINES and HERBACEOUS PERENNIALS

By JOHN KIRKEGAARD

Formerly Assistant to Director of the Royal Botanical Gardens, Copenhagen, Denmark. Latterly Twenty Years in American Forestry and Botanical Work.

Assisted by DR. H. T. FERNALD,

Professor of Entomology Massachusetts Agricultural College and Entomologist, Massachusetts Agricultural Experiment Station,

and PROF. E. A. WHITE,

Professor of Floriculture, New York State College of Agriculture at Cornell University.

A Great Book A Beautiful Book
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147 Summer St., Boston

QUARANTINE REGULATION

No. 37

The Joint Committees of Tariff and Legislation of the Society of American Florists and Ornamental Horticulturists and of the American Association of Nurserymen were granted a most satisfactory interview with the Secretary of Agriculture on March 1st, through the courtesies of Senator William M. Calder of New York and Congressman Isaac Bacharach of New Jersey—the latter gentleman being present at said interview—at which the principal points of objection to Regulation No. 37 were carefully presented and attentively listened to by the Secretary.

Briefs setting forth in full the inconsistencies of Regulation No. 37 were also submitted to the Secretary, which will receive his careful consideration before he renders a decision which your committee hopes will be favorable to all interests concerned.

The following are the recommendations submitted by the committee:

1. That Quarantine No. 37, with regulations, and which represents the subject of our protest, be rescinded.

2. That when further quarantine regulations are considered necessary, that such be made in accordance with Section 7 of the Act of Congress of August 20, 1912, and its Amendments of March 4, 1913, and March 4, 1917.

3. That due notice for such hearings be sent to all of the horticultural trade papers, to the Secretaries of the Society of American Florists and Ornamental Horticulturists, The Association of American Nurserymen, The American Rose Society and to the leading firms in horticultural lines. That in said notices the items to be considered be given in specific and not in general terms.

4. That such hearings shall not be called between April 1st and June 1st or during three weeks prior to Christmas or Easter; at which time it is not possible for florists to attend.

We further suggest that when such hearings are held the details of any proposed edict be fully submitted, but if this is impracticable, then it would appear advisable to submit the final draft when completed to the officers of the representative horticultural trade bodies whose committees should be given an opportunity to offer suggestions regarding additions or modifications which their practical commercial experience and knowledge might dictate.

Inasmuch as the subject of this protest is of great concern to millions of citizens and of vital importance to the thousands of members of our organiza-

tion, we have presented our case to you frankly and fully, Mr. Secretary, believing that your known sense of fairness will give us redress.

On behalf of the Society of American Florists and Ornamental Horticulturists represented by this Special Committee,

J. F. Ammann, President of the S. A. F. & O. H.; Edward A. Feters, Vice-president of the S. A. F. & O. H.; John Young, Secretary of the S. A. F. & O. H.; J. J. Hess, Treasurer of the S. A. F. & O. H.; Wm. F. Gude, Heber J. Ware, Wm. H. Siebrecht, Jr., Jacob D. Eisele, Frank R. Pierson, James McHutchison and L. H. Vaughan, members of Tariff and Legislative Com.; Wm. F. Gude, Washington Representative, S. A. F. & O. H.; George Asmus, Chairman, National Flower Show Com.; Henry Penn, Joseph H. Hill, C. E. Critchell, C. C. Pollworth and Joseph A. Manda, Directors of S. A. F. & O. H.; Charles H. Totty, Director Ex-officio, S. A. F. & O. H.; Philip Breitmeyer, Vice-president, F. T. D. A.; Charles S. Strout, President, American Carnation Society; Philip F. Kessler, President, New York Florists' Club; Edmund A. Harvey, President, The Florists' Club of Philadelphia; E. G. Hill, President, The Florists' Hall Association; A. J. Zech, President, Chicago Florists' Club; Benjamin Hammond, President, American Rose Society; August H. Hummert, President, St. Louis Florists' Club; Charles J. Graham, President, Cleveland Florists' Club; Robert Weeks, President, National Association of Gardeners.

The men who came to Washington are much gratified at the reception accorded them by Secretary Houston and seem to feel that their case will be given more favorable consideration than at the hands of Chairman Marlatt and members of the Federal Horticultural Board. So deep was this feeling that when the Secretary suggested that they might perhaps like to have another hearing before the Board while in Washington, they stated that they did not care to do so, preferring to wait until the Secretary might have an opportunity to go through the evidence they offered in their briefs.

BOSTON.

The Massachusetts Horticultural Society will hold a flower show at Horticultural Hall, March 8 and 9.

Among the first public parks in the country to be named in honor of former President Theodore Roosevelt is one in Malden. The park commission have been requested to change the name of Coytemore Lea on Mountain avenue and Clifton street to Roosevelt Park. The park is one of the most picturesque in the suburbs of Boston. Its area is three and a half acres.

CLUBS AND SOCIETIES

GARDENERS' AND FLORISTS' CLUB VICTORY BANQUET.

The Victory Banquet held by the Gardeners' and Florists' Club of Boston in Horticultural Hall on Feb. 26 proved to be a great success, with an attendance of nearly 250 ladies and gentlemen. As is usual at the banquets, the dining tables were very beautifully decorated with plants and cut flowers, and palms and flowering plants were very effectively used on the stage. After the excellent menu had been disposed of, President Rogers, who officiated as toastmaster, welcomed everyone and spoke of the share the club had taken towards winning the world war, no less than 45 members having joined some branch of the service, of whom two had been killed in action, several wounded and gassed, and the French croix de guerre had been awarded several members for bravery.

Nathaniel F. Kidder spoke for the Massachusetts Horticultural Society and emphasized the need of continued liberal plantings of vegetables and care given with a garden. W. C. Stickel responded to the toast of the United States of America in his usual able manner. F. E. Palmer spoke for our sister republic and ally, France, and told in eloquent language of the wonderful work she had done for civilization. Robert Cameron was fairly in his element in responding for the British Empire. He gave many figures to prove that but for Britain Germany would have won the war as we were unable to get our troops over without British transports and warships as protectors. William Evans spoke earnestly and convincingly of the heroic work of Belgium, and was warmly applauded. Peter Pederzina fairly brought the house down, to use a common phrase, in his response for Italy, and spoke in so earnest, forcible and telling a manner that he got round after round of cheers. W. N. Craig responded for the ladies, and spoke of the immense work they had done here and abroad towards winning the war.

The audience rose and drank a silent toast to the memories of John Enos Blocksidge and M. U. Roberts, killed in France, and on motion of W. N. Craig paid a similar tribute to William J. Stewart, buried only a few hours before the banquet, and who had ever had the club's interests much at heart and was largely instrumental in organizing it in 1887 at his then store on Bromfield street.

Various popular and patriotic songs were sung at intervals during the evening and several talented artists furnished vocal selections, those of James Sawyer being enthusiastically encored. At the conclusion of the post prandial exercises the hall was cleared for dancing, which was enjoyed until midnight.

ILLINOIS STATE FLORISTS' ASSOCIATION.

The thirteenth annual convention of the Illinois State Florists' Association

will be held in the Floricultural Building, University of Illinois, Urbana, March 11-12, the opening session at 2.30 p. m. to be followed by another at 7.30. The second day will be devoted to conferences and inspection of the experimental greenhouses. An interesting programme has been arranged and every florist in the state is invited to be present. Those who attend are earnestly requested to bring with them anything new they may have, either in flowers or ideas.

The Chicago party will leave the Park Row station via the Illinois Central railroad, March 11, at 8.45 a. m., due at Champaign 11.59 a. m. The fare in each direction to Champaign, the railroad station for Urbana, is



ANDREW K. ROGERS.

President Gardeners' and Florists' Club of Boston.

\$408, war tax included. No reduction is made for round trip and there is no party rate.

MICHAEL BARKER.

Chairman Transportation Committee.

INTERNATIONAL FLOWER SHOW, NEW YORK, MARCH 15 TO 22, 1920.

The Schedule Committee of the International Flower Show to be held in the Grand Central Palace, New York, next year, is entering upon the preparation of the premium schedule, and in order to make the scope of the exhibits as extensive as possible, suggestions are invited from those who can make small exhibits, or exhibits of but one variety, as to classes to be provided and the probability of filling the same. Any suggestions which may be forthcoming should be plainly stated and submitted to C. H. Totty, Madison, N. J., chairman of the Schedule Committee, not later than March 20th next.

JOHN YOUNG, Secretary.

1170 Broadway, New York.

CONNECTICUT NURSERYMEN'S ASSOCIATION

The 13th annual meeting of the Connecticut Nurserymen's Association was held at Heublein's Hotel, Hartford, Conn., Tuesday, Feb. 25th, 1919. The records showed the association to be in a flourishing condition.

We were entertained and instructed by the following able speakers:

E. A. Brown of Hartford County Farm Bureau, who spoke on "The Tractor," and answered many questions regarding them.

W. W. McCartney of New Haven, on "How Can We Get the Most Out of the Quarantine Act?"

F. B. Kelley of Princeton, N. J., on "Are Nurserymen Receiving Enough for Their Products?" He also spoke on "Market Development."

Dr. W. E. Britton, State Entomologist, gave us one of his interesting and instructive talks on "Insect Pests Which We Import."

W. E. Campbell, of New Haven, gave an illustrated talk on "Publicity and the Best Way of Bringing Our Wares to the Consumers' Attention."

The following were elected officers for the ensuing year: President, Chester Brainerd, Thompsonville, Ct.; vice-president, H. W. Gottschalk, Manchester, Conn.; secretary, F. L. Thomas, Meriden, Conn.; treasurer, W. W. Hunt, Hartford, Conn.

We were shocked to learn of the passing of one of our most esteemed members, a short time since, Mr. E. A. Brassill, of Hartford. Resolutions of regret were passed, a copy sent to his family, and spread upon the association's records.

The following committees were appointed by President Brainerd: Legislative, J. R. Barnes, Stephen Hoyt, C. R. Burr; executive, W. W. McCartney, W. W. Hunt, E. F. Coe; entertainment, P. M. Hubbard, W. E. Campbell, Gustave Minge; publicity, W. E. Campbell, H. W. Gottschalk, C. R. Burr. The meeting adjourned at 4 p. m., the members going in a body to the Hartford Auto Show to look over the tractors.

F. L. THOMAS, Secy.

Meriden, Conn.

PENNSYLVANIA HORTICULTURAL SOCIETY.

The officers of this society for 1919 are as follows: President, James Boyd; vice-presidents, Henry F. Michell, Robt. Craig, Wm. Kleinheinz, J. Otto Thilow; treasurer, Sidney W. Keith; secretary, David Rust.

The office and library are now at 606 Finance Bldg., South Penn Square, Philadelphia, and the meetings are held on the third Tuesday of each month, except July and August, at 3.30 p. m. at Griffith Hall, 1420 Chestnut street, Philadelphia.

The program of exhibitions for 1919 is as follows:

Exhibition of peonies, outdoor cut flowers, and hybrid tea roses, at Firemen's Hall, Byrn Mawr, Penna., June 3 and 4; exhibition of sweet peas, hardy perennials and hybrid perpetual

roses, at the Jenkintown Club and reading room, Jenkintown, Pa., June 24 and 25; exhibition of dahlias, outdoor cut flowers and vegetables, at Masonic Hall, Ardmore, Pa., Sept. 16 and 17; annual exhibition and chrysanthemum show, at the First Regiment Armory, Broad and Callowhill streets, Philadelphia, Nov. 5 to 8, inclusive.

At all the above exhibitions prizes are offered for vegetables for the school gardens and war gardens.

DAVID RUST, Secy.

CAN THE UNITED STATES GROW ITS OWN FRUIT STOCKS?

"We are beginning to appreciate more and more," says one of the plant pathologists of the United States Department of Agriculture, "that our future successful fruit culture is intimately associated with the problem of stocks. With the exception of the grape, no far reaching studies have been made on stocks in this or any other country. We have followed certain empirical practices in the past, but as competition becomes greater and the demand for the highest grades of fruit and plant products increases, we must know more of the actual relation of stocks to quality of product, to the length of life of the tree or plant, to adaptability to soil and climate, to resistance to disease and insect attacks."

One of the questions to be solved, according to the Department of Agriculture, is the practicability of producing in this country the millions of ordinary apple, pear, plum and cherry stocks which hitherto have been secured largely abroad. Another need is the systematic study of stocks with a view to their improvement and better adaptability to the wide variety of conditions and needs that exist here and that are likely to develop as the fruit industry becomes more complex. If fruit industries are to be maintained the department thinks it is imperative that there be available full supplies of the ordinary stocks, and it is desirable to find or develop stocks that may prevent some of the losses from insects and diseases.

"If stocks are to be produced in this country to take the place of those hitherto secured abroad," the statement continues, "it would seem proper that efforts should be made by the government to aid those who are anxious to know where the work can best be done and how it may be done to the best advantage. The problems involved are so complex that private interests can not well handle them. The chief problems are to find regions and soils in this country where stocks may be commercially grown and to demonstrate on a commercial scale that such stocks are equal to or better than those grown abroad. Correlated with the problems of commercial stock production is that of securing seeds for stock. There is need for developing our home supplies. This is a long time proposition, as there are few recognized sources of supply here, such as exist in Europe."

BEST YOUNG TREES

Little Tree Farms, FRAMINGHAM, MASS.

We have millions of growing **EVERGREEN AND DECIDUOUS TREES** complete in grades and sizes.

Write for Price List

Seedlings and Transplants, Firs, Junipers, Arborvitae, Pines, Spruces, Maples, Ash, Oaks, Lindens, Elms, etc.



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15 Beacon St.
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NURSERY STOCK

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List


W. & T. SMITH COMPANY, Geneva, N. Y.

We are subscribers to the Nurserymen's Fund for Market Development

VIBURNUM PLICATUM

Also Berberis Thunbergii, Hydrangea paniculata, Weigela, Spiraea, etc.

Ask for complete list of **OAK BRAND SHRUBS.**

The **CONARD & JONES CO.**  **WEST GROVE PENN., U.S.A.**

Robert Fyfe, Pres. Antonio Wintner, Vice-Pres.
We are subscribers to the Nurserymen's Fund for Market Development

PROTEST AGAINST THE EUROPEAN CORN BORER QUARANTINE

If the proposed quarantine against "all herbaceous plants" is put into effect in New York and Massachusetts because of the presence in those States of the European corn borer, agricultural men, nurserymen, plantmen, florists and gardeners say it will put out of business the various branches of the industry. About twenty men engaged in these various lines appeared before the Federal Horticultural Board at Washington at its hearing on February 26, to protest against the proposed action of the Board.

All of the evidence presented was in opposition to the quarantine. It seemed to be the opinion of all of the speakers that a quarantine affecting the whole of each of the two States would be more drastic than the situation would warrant, especially in view of the fact that the agricultural commission of New York has ample authority to do its quarantining within the State and was willing to do so whenever necessary, and similar power is about to be granted the Massachusetts Commission, while both States are setting aside ample funds to combat the borer and bring it under control.

Commissioner Wilfrid Wheeler, of Massachusetts, and George Atwood, of Albany, both urged that the States be permitted to carry on the campaign for the extermination of the borer without the intervention of the Federal Government through the issuance of a quarantine order. They sought, of course, the assistance of the Federal Government in the work, but expressed the belief that they could better handle the situation in the manner suggested. Mr. Wheeler stated that

HILL'S EVERGREENS

BEST FOR OVER HALF A CENTURY
Small, medium and large sizes supplied
Price list now ready

THE D. HILL NURSERY CO.

Evergreen Specialists. Largest Growers in America
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CHRYSANTHEMUM SPECIALISTS

ELMER D. SMITH & CO.

ADRIAN, MICH.

as soon as the authority is granted him through the measure then pending before the Massachusetts Legislature he would take the necessary steps to quarantine the infected areas in his State.

New York is furnishing its department of agriculture with \$200,000, of which \$75,000 is to be made available immediately, to try and get rid of the pest in that State.

The Board has taken the whole problem under advisement.

DRACAENA CANES

Last chance to import Canes before "Plant Exclusion Act" becomes effective June 1st.

All the best commercial varieties including:

LINDEN	IMPERIALIS
FRAGRANS	LORD WOLSELEY
AMABILIS	TERMINALIS
MASSANGIANA	SANDERIANA
Etc., Etc., Etc.	

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The oldest and best established journal for nurserymen. Circulation among the trade only. Published monthly. Subscription price \$1.50 per year. Foreign subscriptions, \$2.00 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
HATBORO, PA.

THE ONION MAGGOT.

(Hylemyia antiqua L.)

The well known "onion maggot" which has caused such tremendous damage throughout the country, and particularly in certain onion-growing sections for a considerable number of years, is apparently a species which has been introduced from Europe.

Onion growers are thoroughly familiar with the "maggot" stage of this pest, as it is found working in the bulbs of the young or developing onions. Probably few of our growers are aware of the fact that the adult stage of the "onion maggot" is a fly about the size of the ordinary house fly, but with a slightly longer and more pointed body, and is somewhat buff in color.

Our investigations have proven that there are three broods of the onion fly each summer. The adult flies of the first brood generally lay their eggs about the middle of April, or soon thereafter. These eggs hatch to "maggots" and after a few days pupate for a short period, from whence issue the adult flies late in May. These adult flies again lay their eggs and the entire life history is repeated as above, a third brood family appearing late in the summer.

For many years no satisfactory remedy had been determined for this serious pest, although many efforts by entomologists had been directed toward the problem. All previous attempts at the control of the pest have been directed against the eggs or larvae (maggots) already in the ground, or in the bulb of the onion.

After working out the life history of this pest, and finding that three life cycles occurred in this state, it seemed reasonable that if we could find a method to kill the adult female fly before the eggs were deposited, a reasonable control might be secured.

A poison bait spray was found which was quite successful in attracting and killing the adult flies. This consisted of one-fourth of an ounce of sodium arsenite or white arsenic dissolved in one gallon of boiling water to which one-half pint to a pint of black New Orleans molasses was added. This poison bait is made much more attractive, as later experiments show, by soaking chopped onions in it for a time, until the bait acquires a strong onion odor.

Application of the bait is best secured by sprinkling it in coarse drops about the onion field and on adjacent vegetation where the flies will be attracted. No attempt should be made to cover the plants with the spray material, but rather large drops should be sprinkled about, using a whisk broom, or a coarse hand sprayer, so that the flies will readily find the drops and feed on them.

Apply this poison bait twice a week from the time the onions first appear above the ground until along in June.

Cabbage Maggot—A similar poison bait made attractive by soaking chopped radishes, cabbage or turnips

in it will act as an attractive poison for the adults of the destructive cabbage and radish maggot, which has similar habits, although a different species.

J. G. SANDERS.

Economic Zoologist, State Department of Agriculture, Harrisburg, Pa.

CATALOGUES RECEIVED.

William Tricker, Arlington, N. J.—Descriptive circular of water lilies.

N. A. Hallauer, Ontario, N. Y.—Select List of Gladioli, Dahlias, Roses, Hardy Plants and Shrubs, Spring, 1919.

John Connon Co., Hamilton, Ont.—Wholesale Price List of Plants, Bulbs, Trees, Roses, Shrubs, Vines and Perennials, Spring 1919.

Williams Seed Co., Norfolk, Va.—Annual catalogue, 1919. A full list of vegetable and garden seeds and garden requisites, illustrated.

J. Bolgiano & Son, Baltimore, Md.—Special February edition Bolgiano's "Big Crop" Seeds. This edition lists vegetable and grass seeds exclusively.

Elm City Nursery Co., New Haven, Ct.—1919 Price List of choice trees, evergreens, shrubs, vines, roses, etc. A carefully compiled list of choice material.

J. J. Broomall, Eagle Rock, Cal.—Dahlia Guide, 1919. A comprehensive list of the many varieties of dahlias, including a history of this popular flower.

Peter Henderson & Co., New York City.—Henderson's Farmers' Manual, 1919. Grasses, field corn, etc., are fully listed, also miscellaneous agricultural seeds.

S. S. Pennock Co., Philadelphia, Pa.—Original and Exclusive Designs in Florists' Fancy Baskets. A very complete list of the very latest in florists' baskets, fully illustrated.

Fraser Nursery Co., Huntsville, Ala.—February Surplus List, for nurserymen and dealers only. The list includes fruit trees, small fruits, evergreens, shrubs, shade and ornamental trees.

George H. Walker, North Dighton, Mass.—Choice Dahlias, 1919. This is



MICHELL'S NEW CROP

Asparagus Plumosus Nanus

GREENHOUSE GROWN SEED

1000 Seeds....	\$3.00	10,000 Seeds....	\$25.00
5000 Seeds....	13.75	25,000 Seeds....	56.25

LATHHOUSE GROWN SEED

1000 Seeds....	\$2.00	10,000 Seeds....	\$18.50
5000 Seeds....	9.75	25,000 Seeds....	43.75

Special prices on larger quantities.

Also all other Seasonable Seeds, Bulbs and Supplies. SEND FOR OUR NEW WHOLESALE PRICE LIST IF YOU HAVEN'T A COPY.

HENRY F. MICHELL CO.

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Mr. Walker's 15th catalogue, and some choice dahlias are described and illustrated therein, as well as cultural notes.

D. Hill Nursery Co., Dundee, Ill.—Hill's Spring 1919 Wholesale Trade List for Nurserymen, Florists, Seedsmen and Dealers. A well arranged and fully illustrated catalogue by this well-known house, founded in 1855.

Vaughan's Seed Store, New York City.—Annual Spring Catalogue, 1919. This enterprising seed house has been in business for forty-two years. This year's catalogue fully describes the best in vegetable and garden seeds.

A. E. Kunderd, Goshen, Ind.—Kunderd's Gladiolus, 1919. This is the second edition of this catalogue, beautifully illustrated. A great many new varieties are listed, and gladiolus lovers will find much to interest them.

Bobbink & Atkins, Rutherford, N. J.—World's Choicest Roses Grown in America. A beautifully printed rose catalogue profusely illustrated. In addition, a supplementary list has been sent out, enumerating varieties not listed in this catalogue, making in all a most complete collection.

Currie Bros. Co., Milwaukee, Wis.—Currie's Farm and Garden Annual, Spring, 1919. This is the 44th year of this enterprising seed house, whose growth has been steady all the while. The present catalogue of 100 pages is profusely illustrated, nasturtiums in color adorning the front cover and a basket of vegetables on the back cover.

PATENTS GRANTED

- 1,291,772. Cultivator. George A. Currier, St. Louis, Mo.
- 1,291,882. Seed-Planter. William A. Hicks, Chillicothe, Ill.
- 1,291,973. Seed-Planting Device. Wallace McLaughlin, Fort Scott, Kas.
- 1,291,995. Seed-Drill. Nels Melland, Sawyer, Wis.
- 1,292,082. Seed-Tape Planter. Paul T. Sanford, Bemidji, Minn.
- 1,292,306. Attachment for Seed-Drills. Dayton H. Gilson, Rushville, Ind.
- 1,292,376. Weed-Puller. Alfred L. Romero, Oakland, Cal.
- 1,292,704. Garden-Tool. George K. Caviness, Seymour, Iowa.

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The Best Summer Spencer Varieties for Florists



Boddington's Early Flowering Spencers

WHITE

Etta Dyke. White. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.
White Spencer. Fine white. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.
Constance Hinton. The best black-seeded White Spencer. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.
Nora Unwin. Pure white. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.
White Perfection. Extra large white of good substance exceptionally waved. Oz. 40c., $\frac{1}{4}$ lb. \$1.25, lb. \$4.50.

PINK AND WHITE BICOLOR

Mrs. Cuthbertson. The finest pink-and-white variety; standard rose-pink, wings white. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.
Blanche Ferry Spencer. Good pink-and-white; standard rose, wings white. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.

PINK

Countess Spencer. Bright pink. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.
Florence Morse Spencer. Blush-pink. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.
Hercules. The largest and longest stemmed deep pink. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.
Lovely. Bright pink, soft blush and almost white at the edges. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.
Margaret Atlee. Warm salmon pink. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.
Mrs. Hugh Dickson. Beautiful cream pink. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.
Mrs. Rutzahn. Straw-color, tinted blush. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.
Apple Blossom. Rosy pink. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.
Duplex Spencer. Cream pink. Oz. 40c., $\frac{1}{4}$ lb. \$1.25, lb. \$4.50.

ORANGE

Flery Cross. Asplendid orange-scarlet. Oz. 50c., $\frac{1}{4}$ lb. \$1.75, lb. \$7.00.
Helen Lewis. Orange-salmon pink. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.
Thomas Stevenson. Fine orange-scarlet. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

SALMON

Barbara. Rich, glowing orange-salmon. Oz. 30c., $\frac{1}{4}$ lb. \$1.00, lb. \$3.00.
Stirling Stent. Glorious deep salmon. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

SCARLET

Scarlet Emperor. Bright scarlet, very vigorous. Oz. 30c., $\frac{1}{4}$ lb. \$1.00, lb. \$3.00.
Vermillion Brilliant. Brilliant scarlet. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

CRIMSON

King Edward Spencer. Crimson. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.
Maud Holmes (Sunproof). Crimson. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

CARMINE

Decorator. The general tone is a deep cerise. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

George Herbert Spencer. Rosy carmine. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.

Marie Corelli. Brilliant rose carmine. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.

MAROON

Nubian. Best maroon. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

Othello Spencer. Glossy maroon. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.

Black Knight. Bronzy maroon. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.

LAVENDER

Asta Ohn. Beautiful soft lavender. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.

Florence Nightingale. Rich lavender, soft pinkish sheen. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.

R. F. Felton. Soft lavender. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

Frank Dolby. Light lavender. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.

Masterpiece. Rich lavender. Oz. 40c., $\frac{1}{4}$ lb. \$1.25, lb. \$4.50.

BLUE

Wedgewood. Bright silvery blue. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

Flora Norton. Bright blue tinted purple. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.

PURPLE

Captain of the Blue Spencer. Pure purple. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

Royal Purple. Rich, royal purple. Oz. 30c., $\frac{1}{4}$ lb. \$1.00, lb. \$3.00.

PICOTEE-EDGED

Dainty Spencer. White ground, beautiful picotee edge of rose-pink. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

Mrs. C. W. Breadmore. Cream ground, beautiful picotee edge of pink. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

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American Spencer. White ground, mottled and flaked crimson. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

Aurora Spencer. White ground, striped and flaked orange-pink. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

Jessie Cuthbertson Spencer. Ground color rich cream, overlaid with stripes and marblings of bright rose-pink. Oz. 30c., $\frac{1}{4}$ lb. \$1.00, lb. \$3.00.

Loyalty. Ground-color white, striped blue. Oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

Senator Spencer. Chocolate and seal-brown striped and flaked on ivory-white. Oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.00.

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Early Red Spencer. Bright cherry-red. $\frac{1}{4}$ oz. 20c., oz. 75c., $\frac{1}{4}$ lb. \$2.50.
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Early White Spencer. Pure white. $\frac{1}{4}$ oz. 20c., oz. 75c., $\frac{1}{4}$ lb. \$2.50.

Early Apricot Spencer. Beautiful apricot self. $\frac{1}{4}$ oz. 20c., oz. 75c., $\frac{1}{4}$ lb. \$2.50.
Early Lilac Spencer. Standard lilac wings light blue on white ground. $\frac{1}{4}$ oz. 20c., oz. 75c., $\frac{1}{4}$ lb. \$2.50.
Early Pink Spencer. Beautiful clear bright pink. $\frac{1}{4}$ oz. 20c., oz. 75c., $\frac{1}{4}$ lb. \$2.50.
Early Mixed Spencers. $\frac{1}{4}$ oz. 20c., oz. 65c., $\frac{1}{4}$ lb. \$2.00.

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	BOSTON Mar. 6		ST. LOUIS Mar. 3		PHILA. Mar. 3	
Roses						
Am Beauty, Special.....	100.00	to 125.00	50.00	to 60.00	to 100.00
" " Fancy and Extra.....	50.00	to 75.00	30.00	to 40.00	50.00	to 75.00
" " No. 1 and culls.....	20.00	to 30.00	12.00	to 20.00	30.00	to 40.00
Russell.....	12.00	to 25.00	10.00	to 35.00	25.00	to 40.00
Hadley.....	12.00	to 25.00	5.00	to 10.00	10.00	to 40.00
Mock Key.....	4.00	to 15.00	5.00	to 25.00	.....	to 40.00
Arenberg, Hoosier Beauty.....	4.00	to 15.00	10.00	to 15.00	8.00	to 20.00
Ward, Hillingdon.....	4.00	to 15.00	3.00	to 8.00	.....	to 40.00
Killarney, Key, Taft.....	4.00	to 15.00	4.00	to 10.00	8.00	to 20.00
Ophelia, Sunburst.....	4.00	to 15.00	4.00	to 10.00	10.00	to 25.00
Carnations	4.00	to 6.00	3.00	to 7.00	5.00	to 8.00
Cattleyas	50.00	to 75.00	50.00	to 75.00	50.00	to 60.00
Lilies, Longiflorum	12.00	to 20.00	20.00	to 25.00	20.00	to 25.00
Lilies, Speciosum	8.00	to 20.00	.....	to 10.00	.....	to 40.00
Callas	16.00	to 20.00	10.00	to 20.00	20.00	to 25.00
Freesia	4.00	to 6.00	.....	to 3.00	3.00	to 4.00
Roman Hyacinths	2.00	to 4.00	.....	to 3.00	.....	to 6.00
Stevia	.....	to 10.00	.....	to 10.00	.....	to 10.00
Marguerites	3.00	to 6.00	.....	to 1.50	1.50	to 3.00
Lily of the Valley	6.00	to 8.00	6.00	to 8.00	.....	to 10.00
Snappedragon	8.00	to 12.00	.....	to 5.00	12.00	to 15.00
Violets	.25	to .75	.40	to .60	1.00	to 1.50
Narcissus	3.00	to 4.00	.....	to 3.00	6.00	to 8.00
Calendula	2.00	to 4.00	3.00	to 5.00	6.00	to 8.00
Sweet Peas	1.00	to 3.00	.50	to 1.00	1.00	to 3.00
Gardenias	.....	to 100.00	.....	to 10.00	40.00	to 50.00
Adiantum	1.00	to 1.50	1.50	to 2.00	1.50	to 2.00
Smilax	.....	to 35.00	20.00	to 25.00	20.00	to 25.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	35.00	to 50.00	35.00	to 1,250.00	50.00	to 75.00

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Flower Market Reports

Conditions have not changed materially from last week with the exception of a shortening up in the supply of American Beauty roses, which naturally has caused an increase in prices. An abundance of other roses, however, has caused a falling off from quotations previously reported. Carnations have also shortened up and the continued demand holds the market firm. Sweet peas seem to be the popular flower, and while shipments are large they clean up well. Violets move slowly and the warm weather of the last few days has had a visible affect upon the quality. Lilies are still scarce and lily of the valley, which is much improved, has but little demand. Bulbous stock has also shortened up somewhat, while miscellaneous stock is fairly plentiful.

The market has eased considerably during the past week. The last day of February and the first day of March made a week end that disposed of all the stock to be had and at good prices, but the next week opened with local trade rather quiet. Out of town trade, on the contrary, is keeping up and there is no change in the demand for flowers of all kinds. Roses are a little more plentiful, or seem so, because demand is not quite so strong, while carnations are about as before, the stock of the latter looking stronger and brighter as the season advances. There are plenty of sweet peas now and bulbous flowers are seen in considerable quantity and sell at good prices.

Business continues CINCINNATI to hold up well and everything that comes into the wholesale houses clears quickly. The supply is larger than it was a fortnight ago but still up to this time it has not eased up the market to any considerable extent. Shipping business is excellent. Roses, although they are becoming more plentiful, are still short of actual needs. The carnation supply has increased somewhat during the past few weeks but not enough to ease the market for this flower very appreciably. Easter lilies find a good market. They are not any too plentiful. Some Rubrum lilies are coming in and they find a ready sale. Callas prove good property. Many fine, large sweet peas are available and meet with an active demand that takes up all of them. Bulbous stock sells well. The list includes jonquils, daffodils, Dutch hyacinths, tulips and freesia. Other offerings are snapdragon, orchids, violets, forget-me-not, wallflower and Baby Primrose.

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WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Mar. 3	CHICAGO Mar. 3	BUFFALO Mar. 3	PITTSBURG Mar. 3
Roses				
Am. Beauty, Special.....	65.00 to 75.00	60.00 to 90.00	60.00 to 75.00	60.00 to 75.00
" " Fancy and Extra.....	35.00 to 50.00	40.00 to 50.00	25.00 to 50.00	40.00 to 50.00
" " No. 1 and culls.....	10.00 to 25.00	15.00 to 25.00	5.00 to 20.00	15.00 to 25.00
Russell.....	15.00 to 30.00	10.00 to 35.00	10.00 to 20.00	10.00 to 30.00
Hadley.....	15.00 to 25.00	15.00 to 25.00	8.00 to 12.00	..... to 30.00
Euler, Mock.....	15.00 to 25.00	15.00 to 25.00	8.00 to 12.00	10.00 to 30.00
Arenberg, Hoosier Beauty.....	10.00 to 20.00	6.00 to 20.00	8.00 to 15.00	..... to 30.00
Ward, Hillingdon.....	8.00 to 15.00	4.00 to 15.00	4.00 to 6.00	6.00 to 15.00
Killarney, Key, Taft.....	8.00 to 15.00	4.00 to 15.00	6.00 to 15.00	6.00 to 20.00
Ophelia, Sunburst.....	8.00 to 25.00	8.00 to 25.00	6.00 to 15.00	8.00 to 25.00
Carnations	6.00 to 8.00	3.00 to 6.00	3.00 to 5.00	4.00 to 6.00
Cattleyas.....	..... to 25.00	35.00 to 50.00	60.00 to 75.00	50.00 to 60.00
Lilies, Longiflorum.....	..... to 30.00	18.00 to 30.00	15.00 to 20.00	..... to 25.00
Lilies, Speciosum.....	..... to 30.00	..... to 30.00	6.00 to 10.00	..... to 30.00
Callas.....	..... to 30.00	15.00 to 20.00	15.00 to 25.00	..... to 25.00
Freesia.....	..... to 30.00	3.00 to 8.00	3.00 to 4.00	4.00 to 6.00
Roman Hyacinths.....	..... to 30.00	4.00 to 8.00	3.00 to 6.00	3.00 to 5.00
Stevia.....	..... to 30.00	..... to 30.00	..... to 30.00	..... to 30.00
Marguerites.....	..... to 30.00	..... to 30.00	1.00 to 2.00	2.00 to 3.00
Lily of the Valley	8.00 to 10.00	6.00 to 8.00	8.00 to 10.00	..... to 6.00
Snapdragon	12.00 to 15.00	12.00 to 20.00	8.00 to 15.00	50.00 to 60.00
Violets	1.00 to 2.00	.75 to 1.00	1.00 to 1.25	.75 to 1.00
Narcissus	5.00 to 6.00	3.00 to 8.00	3.00 to 4.00	..... to 5.00
Calendula	4.00 to 6.00	3.00 to 6.00	3.00 to 6.00	4.00 to 6.00
Sweet Peas	1.00 to 3.00	1.00 to 2.00	1.00 to 3.00	.75 to 3.00
Gardenias.....	..... to 30.00	50.00 to 75.00	15.00 to 20.00	..... to 30.00
Adiantum	1.00 to 1.50	1.50 to 2.00	1.00 to 2.00	..... to 2.00
Smilax.....	..... to 25.00	30.00 to 25.00	..... to 20.00	..... to 25.00
Asparagus Plu. & Spren. (100 Bhs.)	35.00 to 50.00	50.00 to 75.00	35.00 to 50.00	40.00 to 50.00

There was a decided NEW YORK lull in business beginning Monday, and a general falling off in prices on most all flowers. American Beauties are the exception. Rose shipments, due to the mild weather, are increasing. Carnations are not moving well and are in for a fall in quotations. Bulbous stock such as tulips, golden spurs and Victorias are holding their own, but lilies do not go except at concessions in price. Calendulas and daisies are in limited demand but asparagus is selling well.

Business during the ROCHESTER past week has been good with an abundance of funeral work, also social affairs. Roses have been none too plentiful, but of good quality. Violets are plentiful and of excellent quality, also Murillo and Lorraine tulips, narcissus, daffodils, jonquils, calendulas, snapdragon, marguerites, forget-me-nots and mignonette. Carnations have been somewhat scarce. Sweet peas are of good quality but light in supply. Lily of the valley is more abundant. Asparagus and smilax are scarce.

All kinds of stock was ST. LOUIS more plentiful. Roses and carnations were lower in price. Sweet peas showed a greatly increased supply. Violets moved at moderate prices. Greens were in good demand and bulbous stock is moving well.

Mt. Clemens, Mich.—Doemling & Schumell, of Detroit, have purchased the range of Robert Klagge.

NEW CORPORATIONS.

Higginson, Ark.—Baker Nursery Co., capital stock, \$1,000. Incorporators, John and R. C. Baker, C. E. Yingling.

Brooklyn, N. Y.—Gloria Products Corporation, florists' supplies; capital stock, \$20,000. Incorporators: R. Beck, D. E. Horwitz and M. M. Volt.

Cleveland, O.—A. C. Fox has leased the greenhouses of Richard Gamble.

Horticultural Books

For Sale by

HORTICULTURE PUBLISHING CO.

Chrysanthemum Manual. Elmer D Smith	\$0.50
The Chrysanthemum. Herrington .....	.50
Commercial Carnation Culture. Dick	1.50
Commercial Rose Culture. Holmes	1.50
Violet Culture. Galloway	1.50
Greenhouse Construction. Taft	1.50
Sweet Peas up to Date. Kerr	1.50
Plant Propagation, Greenhouse and Nursery Practice. Kains	1.50
Plant Framing. Kains	1.50
Book of Garden Plans. Hamblin	2.00
Landscape Design. Hubbard	2.00
The Art of Outdoor Rose Growing. Thomas	2.00
The Home Vegetable Garden. Krum	1.00
Vegetable Gardening. R. L. Watts	1.75
Parsons on The Rose	1.00
Principles of Floriculture. R. A. White	1.75
Foundations of American Grape Culture. Munson	2.00
Plant Materials of Decorative Gardening. Trelease	1.00
Aristocrats of the Garden. Wilson	5.00
Hayley's Encyclopedia of Horticulture, 6 volumes	25.00

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Highest Standard of Quality. Largest
Stock in America. Write for Illustrated
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Top Market Prices
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HENRY M. ROBINSON CO. OF NEW YORK
WHOLESALE FLORISTS
55-57 West 26th Street
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MAURICE L. GLASS, Treasurer
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NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Part of Week ending Mar. 1 1919		First Part of Week beginning Mar. 3 1919	
American Beauty, Special	50.00	to 700.00	50.00	to 75.00
" " Fancy and Extra	25.00	to 50.00	25.00	to 50.00
" " No. 1 and culls.	5.00	to 20.00	5.00	to 20.00
Russell,	5.00	to 35.00	5.00	to 35.00
Hadley,	6.00	to 20.00	5.00	to 15.00
Euler, Mock, Key	5.00	to 50.00	4.00	to 15.00
Aronberg, Hoosier Beauty	4.00	to 15.00	4.00	to 15.00
Ward, Hillingdon	4.00	to 13.00	4.00	to 12.00
Killarney, Taft	4.00	to 12.00	5.00	to 10.00
Ophelia, Sunburst	4.00	to 15.00	4.00	to 15.00
Carnations	3.00	to 5.00	2.00	to 6.00

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Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Boston Floral Supply Co.

347-357 Cambridge St., Boston
SHOW ROOMS, 15 Otis Street and
96 Arch Street
Headquarters for
CYCAS, BASKETS, WIRE DESIGNS
and WAX FLOWERS

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.
10,000...\$2.25 50,000...\$0.75 Sample free.
For sale by dealers.

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Simple methods of correct accounting
especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
40 STATE STREET . . . BOSTON
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Local and General News

CHICAGO.

H. N. Bruns, lily of the valley specialist, is ill in a local hospital.

Aug. Koch, superintendent of Garfield Park, gave an address on gardening before the Woman's Outdoor Art League, Tuesday.

Harold Woolf, formerly with one of the trade papers, is now with the Chicago Flower Growers' Association.

The American Bulb Co. has received a carload of lily bulbs from Japan. There is always a new lot of stock arriving here.

A. Henderson Seed Co. is all ready for the spring season and their store looks most inviting. Quite a stock of spring bulbous plants and ferns are not only making the store attractive, but are giving people an opportunity to buy something when they call.

Charlie Stamajos, who returned from the service on Saturday, was run down by an automobile the following Monday night. John Lamp-rakes was with him and both were injured quite severely. They have been employees of J. Mangel at the Blackstone for several years.

A. L. Vaughan, who recently returned from a trip through the south with his family, says Florida weather is not superior to the kind Chicago is having this winter. While at Tampa there was a light frost. Mr. Vaughan did not notice any marked additions to the glass area in the south over that of a few years ago. He called upon Mills, the Florist, at Jacksonville, and the Knoll Floral Co. at Tampa, both of whom had up-to-date places.

ROCHESTER, N. Y.

The Rochester Florists' Association will hold their monthly meeting on March 9th, at which Wm. de Graff, a Rochester attorney, will speak on the League of Nations.

The Rochester Floral Co. has purchased the business and good will of H. P. Neun, 8 North street, at the entrance to the Mercantile Bldg. and will carry on the business of the two concerns in their new quarters. Twelve years ago Mr. Wilson opened the branch store at 379 Main street E., remaining on this site for three years. The business was then moved to 245 Main street E., and in 1914 removed to its present site. The new quarters in the Mercantile Bldg. will be re-decorated.

Standing under the far-reaching branches of the Cherokee rose with its beautiful white blossoms in Lam-

J. K. ALLEN

"A LEADER IN THE WHOLESALE COMMISSION TRADE FOR OVER THIRTY YEARS"

ROSES! I WANT ROSES!

Have a demand for more than I can supply. Rose Growers Call or Write.

118 West 28th St.

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NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Part of Week ending Mar. 1 1918		First Part of Week beginning Mar. 3 1918	
Cattleyas.....	30.00	to 50.00	20.00	to 40.00
Lilies, Longiflorum.....	12.00	to 16.00	12.00	to 16.00
Lilies, Speciosum.....	.....	to .....	.....	to
Callas.....	12.00	to 16.00	10.00	to 16.00
Freesia.....	2.00	to 3.00	1.00	to 2.00
Roman Hyacinths.....	1.00	to 4.00	1.00	to 3.00
Stevia.....	.....	to .....	.....	to
Marguerites.....	1.50	to 2.00	1.50	to 2.00
Lily of the Valley.....	2.00	to 4.00	2.00	to 4.00
Snopdragon.....	8.00	to 20.00	8.00	to 25.00
Violets.....	.50	to .75	.40	to .75
Narcissus.....	2.00	to 4.00	2.00	to 4.00
Calendula.....	2.00	to 6.00	2.00	to 6.00
Sweet Peas.....	1.00	to 4.00	1.00	to 3.00
Gardenias.....	20.00	to 50.00	20.00	to 50.00
Adiantum.....	.....	to 1.00	.....	to 1.00
Smilax.....	15.00	to 20.00	15.00	to 20.00
Asparagus Plumosus, & Spreng (100 bunches).....	20.00	to 35.00	20.00	to 35.00

berton conservatory at Highland Park, Saturday afternoon, Alexander B. Lamberton, former commissioner of parks, received the congratulations of hundreds of friends on his 80th birthday. The conservatory was built in honor of Mr. Lamberton by his sister-in-law, Mrs. Mary A. Starbuck. Practically all the city officials, former park commissioners and employees were present. Mr. Lamberton was first appointed to the park board in 1894 and succeeded Dr. E. M. Moore as its president in 1902. He resigned January 25, 1918. In the conservatory, there were large displays of prim-roses, tulips, acacias, camellias and cinerarias, and in the tropical house there were many specimen orchids in bloom.

PHILADELPHIA.

The Lord & Burnham Co. have opened an office at 718 Land Title Bldg. Mr. Fontaine, late of the company's New York office, is in charge. Our old friend "Denny" Connor is associated with him, and also some other charmers of days gone by. Maybe there are not so many who want to build, but most everyone needs repairs either in heating or overhead.

Samuel S. Pennock was missing from his usual haunts of business on the 3rd inst., being over in New York City to meet his son Charles coming home from service in France on the S. S. Lapland. Greetings, Charles! The old Lansdown home will now begin to look like itself again to Mom and Pop.

John Westcott has taken a new lease of life. There is an unusual glint in his eye recently—quite different from his usual winter month bored, tired and weary air. If you want to know why, remember Feb. 22nd, and also be sure and ask him "What time is it." Then see his happy smile when he takes out that golden masterpiece with its sea-going pendant, and hear him swear by it as adamant against every time octopus from Barnegat to Borneo. Oh, Boy! Some watch.

Obituary

George T. Earle.

George Timothy Earle, a life-long resident of Central Falls, died at his home, 720 Broad street, Sunday, Feb. 23, following an illness of nearly 15 years. Mr. Earle was the son of the late Timothy and Phoebe Barney Earle, and was born in Central Falls, in the house adjoining the present home, 65 years ago. For many years he conducted successfully a florist business, until failing health compelled his retirement from active duties. Besides his wife, he is survived by two sons, G. Kenneth and Norman Rogers Earle, and by two sisters, the Misses Anna and Miriam Earle.

Gustav Poehlmann.

Gustav Poehlmann, eldest brother of George, Adolph, August and the late John Poehlmann, passed away at Grant Hospital in Chicago, Feb. 26. Gustav Poehlmann was born in Milwaukee, Wis., fifty-nine years ago, and for many years has been associated with Poehlmann Bros. Co., though not a member of the firm. He lived at Morton Grove and was employed in the office there, and though he has been in poor health for a year he has been at his post till two weeks ago, when his ailments became so serious that he was removed to a hospital. Mr. Poehlmann leaves one daughter, Mrs. Leo Malcher. The funeral was held March 1st and interment was in Memorial Cemetery.

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Manufacturers of

FLOWER POTS

WHY?

A. H. HEWS & CO., INC.

Cambridge, Mass.

A PATRIOTIC APPEAL

The Federal Board for Vocational Education has brought to my attention the fact that there are a great many disabled soldiers who are finding trouble to get employment.

The business men of the country are not responding in the patriotic way that they should. If each firm would endeavor to make a position, if only for one man, it would solve the question beyond a doubt.

Greenhouse work would offer opportunities in many cases. Particularly in some cases where the men have been doing heavy work in the past, and are disabled and only able to do light work. Many of these men have been hard workers, and any work that they could do would probably be well done.

Mr. Jerome B. Scott, Supervisor of Placement of District No. 3, located in Philadelphia, has handed me some memorandums, and among them are the following points:

"In reference to the kind of work wanted for the men, and the class of men that are disabled, I desire to state that many of the men we are coming in contact with are fellows that have done strenuous work before enlistment and who, because of healing wounds and other minor disabilities, are unable to take up this kind of work but require jobs of a lighter nature. In some cases they require sitting-down jobs, and in other cases the men have been gassed and require outside jobs. As I stated the other day, work in your line is particularly well suited for this class of men. They will not be men of any great industrial experience; they will not be men of any particular skill.

"It is here that we are appealing to the employer to follow up his splendid work and backing that he gave to these fellows during the war and to now do his "after-war bit" and continue to back him up until he is established again in civil life and is self reliant.

"The hero that returns to a home and loved ones is truly fortunate.

CLASSIFIED DIRECTORY

Advertisements in this Department, Ten Cents a Line, Net

BULBS

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

CANNAS

For the best Up-to-Date Cannas, get new price list. **THE CONARD & JONES CO.**, West Grove, Pa.

CARNATIONS

Albert Roper, unrooted cuttings, \$2.00 per 100. Cash with order.
HARVEY B. GREENE, Lowell, Mass.

CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. **Pillsbury's Carnation Staple**, 1000 for 35c.; 3000 for \$1.00 post-paid. **I. L. PILLSBURY**, Galesburg, Ill.

DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell. \$10.00 per clump. Cash with order.
JOHN P. ROONEY, New Bedford, Mass.

New Peony Dahlia—**John Wanamaker**, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to **PEACOCK DAHLIA FARMS**, Berlin, N. J.

GLADIOLUS BULBS

Fine, all colors mixture, \$1.25 per 100, \$10 per 1000. Send for catalog.
H. M. GILLET, Box H, Lebanon Spring, N. Y.

GLASS.

Greenhouse glass, lowest prices. **JOHN-STON GLASS CO.**, Hartford City, Ind.

HOT BED SASH

Standard Hot Bed Sash, 3 x 6, \$1.50 each. Order for 10 to 24, \$1.45 each; 25 to 50, \$1.40 each. Glass, 50 square feet, 6 x 8, 8 x 10 at \$1.50. 10 x 12, 10 x 14 at \$1.25.
C. N. ROBINSON & BRO.,
Dept. 29 Baltimore, Md.

How about the fellow that bared his breast to the Hun and returned to these shores wounded and cheered for a day, but realizes upon the following day that the cheers have subsided?

"A great problem confronts the nation at this time, that is the problem of unemployment, and the greatest element in this unemployment is the wounded man.

"These fine fellows do not want charity—they simply want a chance to make an honest and fair living, to make good."

It seems to me that this should appeal to those among our profession who have any patriotism about them, and I feel that it is the duty of everyone to do their "after-war bit."

S. S. PENNOCK.

PUBLICATIONS RECEIVED.

Canadian Seed Growers' Association. The fourteenth annual report for year ending March 31, 1918.

Farmers' Bulletin 1007, U. S. Department of Agriculture, deals with the control of the onion thrips. It described the life, history and habits of the thrip and methods of control.

ORCHIDS

HASSALL & CO., Orchid Growers and Raisers, Southgate, London, England. Cattleyas and Laelio-Cattleyas our specialty. One trial order solicited.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. **C. BETSCHER**, Canal Dover, O.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. **LAGER & HURRELL**, Summit, N. J.

SWEET PEAS

Just Arrived, crop 1918 winter flowering SWEET PEAS, New Zealand grown, the large flowering waved or Spencer type. We have been very fortunate to secure the entire crop of one of the best growers in New Zealand. New Zealand grown seed has always produced the earliest and best blooms, and seed started in August will produce flowers from Thanksgiving until March; requiring a low temperature, these make an ideal crop for the Florist this year. Scarlet, always a good seller. Finest Mixture, all the best colors. Pink and White, Blanche Ferry type. Yarrawa (true), bright rose pink with light wings. Write for further particulars.
JULIUS ROEHRS CO., Rutherford, N. J.

VINES

Flowering and Foliage Vines, choice collection. Large Specimen, Pot and Tub grown for immediate effect; also Climbing Roses. **J. H. TROY**, Mount Hissarlik Nursery, New Rochelle, N. Y.

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WILLIAM E. HEILSCHER'S WIRE WORKS, 264 Randolph St., Detroit, Mich.

FOR SALE

GREENHOUSES FOR SALE

Must settle estate; many years successful operation. Good location, convenient to two railroads, within twenty-five minutes of Boston. Also dwelling, stable and outbuildings. Apply at once. **MRS. E. M. RUMERY**, Newtonville, Mass.

Proceedings of the 13th annual convention of the Tennessee State Florists' Association, Tennessee State Horticultural Society, Tennessee State Nurserymen's Association and the Tennessee Beekeepers' Association, held January 29, 30 and 31, 1918.

Journal of the Society of American Florists and Ornamental Horticulturists.—Volume 1, No. 1, of this new journal, has just reached us. Its 24 pages cover a review of conditions in 1918 and the first installment of the proceedings of the 1918 convention.

Agricultural Experiment Station, New Brunswick, N. J.—Bulletin, No. 328, Some Important Orchard Plant Lice; Circular No. 98, Common Diseases of Shade and Ornamental Trees; Circular No. 99, Asparagus Growing in New Jersey; Circular No. 97, Common Diseases of Ornamental Plants; Circular No. 103, Early Tomato Growing in New Jersey.

Malden, Mass.—**Frank J. Walsh**, of J. Walsh & Son, florists, has been appointed and confirmed a park commissioner to succeed Sylvester Baxter.

LEMON OIL CO'S STANDARD SOLUBLE IN WATER INSECTICIDE NO POISON

Save your plants and trees. Just the thing for greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrips, Red Spider, Black and Green Fly, Mites, Ants, etc., without injury to plants and without odor. Used according to direction, our standard Insecticide will prevent ravages on your crops by insects.

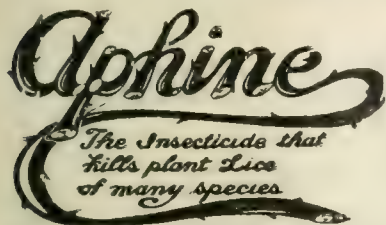
Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

½ Pint, 80c.; Pint, 50c.; Quart, 90c.; ½ Gallon, \$1.50; Gallon, \$2.50; 5 Gallon Can, \$10.90; 10 Gallon Can, \$20.00. Directions on package.

LEMON OIL COMPANY

Dept. S. 420 W. Lexington St., Baltimore, Md.



The Recognized Standard Insecticide. A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$2.50.

FUNGINE

For mildew, rust and other blights affecting flowers, fruits and vegetables.

Quart, \$1.00; Gallon, \$2.50.

VERMINE

For eel worms, angle worms and other worms working in the soil.

Quart, \$1.00; Gallon, \$2.50.

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Pulverized or Shredded
Cattle Manure

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The Florists' standard of uniform high quality for over ten years. Specify: **WIZARD BRAND** in your Supply House order, or write us direct for prices and freight rates.
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Old English



Glazing Putty

LIQUID AND

ELASTIC

For Bedding Glass in Sash or for Filling Cracks or Seams in Roof Joints or Frames of Greenhouses or Hot Beds.

It is used in Machine or Bulb. If too thick for bulb thin with a little Pure Linseed Oil, boiled. So thinned, it can be brushed into any crack or leak, making a solid filling. It makes a solid bed, impervious to moisture, and holds glass in its place, and will stop any crevice or fault. When once set on dry wood it does not heave. As regards the goods, the article is no new invention, but simply an article of the very best class, to do thoroughly good work, like old-time gentlemen expected when sashes were made with lead, and small panes of glass used that caught the water and leaked unless set with an elastic putty, which once set by a mechanic was expected to remain, and did remain in good shape. This Twemlow's Old English Glazing Putty does; nothing more, nothing less. Clean and easily applied.

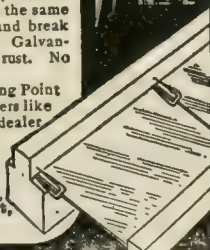
HAMMOND'S PAINT AND SLUG SHOT WORKS, BEACON, N. Y.

Dreer's Peerless Glazing Points For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 90c. postpaid.
Samples free.
HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No 2



GREENHOUSES BUILDING OR CONTEMPLATED.

Granville, Ill.—Geo. J. Ward, one house.

Los Angeles, Cal.—Geo. Stewart, one house.

Beloit, Wis.—N. S. Wilson, one house.

Toledo, O.—J. L. Schiller, house 44 x 150.

Breedsville, Mich.—H. O. Mallett, one house.

Laurel, Md.—J. M. Hammer & Sons, range of houses.

Mitchell, S. D.—Gurney Greenhouse Co., one house.

New Albany, Ind.—J. G. Bettman & Sons, house 30 x 144, completed.

Cleveland, O.—Wilson Florist Co., range of houses in the near future.

Toronto, Ont.—University of Saskatchewan, Saskatoon, addition 25 x 60.

WE ARE SPECIALISTS IN GREENHOUSE GLASS

Free from Bubbles
Uniform in Thickness

PAINTS and PUTTY

Greenhouse White (Semi-Paste) The Paint Particular Florists Prefer

It will pay you to get our estimates.

THE DWELLE-KAISER CO.

251 Elm Street

BUFFALO, N. Y.

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FLORIST SPECIALTIES
New Brand New Style

'RIVERTON' HOSE

Furnished in lengths up to 500 ft. without seam or joint.

The HOSE for the FLORIST

½-inch, per ft., 19 c.

Reel of 500 ft., 18½ c.

3 Reels, 1000 ft., 18 c.

½-inch, " 16 c.

Reels, 500 ft., 15½ c.

Couplings furnished without charge

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PEERLESS BLACK ELASTIC GLAZING CEMENT

FOR SETTING GLASS ON GREENHOUSES, STOPPING CRACKS IN GUTTERS, ROOFS, Etc.

RESISTS WIND AND WEATHER

If at any time it's too thick, thin with Turpentine or Benzine to suit

FOR USE WITH MACHINE

Hammond's Paint and Slug Shot Works
BEACON, N. Y.

Send for Price in Gallons to Barrels



KROESCHELL BOILERS

IF YOU NEED A BOILER IN A HURRY,
Telephone or Telegraph At Our Expense.

Send for Catalog.

Kroeschell Bros. Co., 466 W. Erie St., Chicago



They can't be beat.
What's that can't be beat?

Ventilating Apparatus and Greenhouse Fittings manufactured by the

ADVANCE CO.
Richmond, Ind.

New catalogue just off the press. Write today.

MASTICA



For Greenhouse
Glazing
USE IT NOW

F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

GLASS

FOR
GREENHOUSES

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
Johnson, Stewart and Varick Aves.,
Brooklyn, N. Y.

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NIKOTEEN
For Spraying
APHIS PUNK
For Fumigating
Ask Your Dealer For It
NICOTINE MFG. CO.
ST. LOUIS

A Card This Size

Costs only 90c. per Week
on Yearly Order

It would keep your name and your specialty before the whole trade.
A half-inch card costs only 45c. per week on yearly order.

H. HEISTAD
LANDSCAPE GARDENING
ROCKPORT, ME.

HORTICULTURE

Vol. XXIX

MARCH 15, 1919

No. 11

THE NEW POMPON CHRYSANTHEMUMS

CHRISTMAS GOLD NOVEMBER PEARL
BECKY McLANE

THE NEW SINGLES

MRS. E. M. HORNE MOLLY WHITMORE
PEGGY BULKELEY

THE NEW ANEMONES

VOLUNTEER PINK LADY

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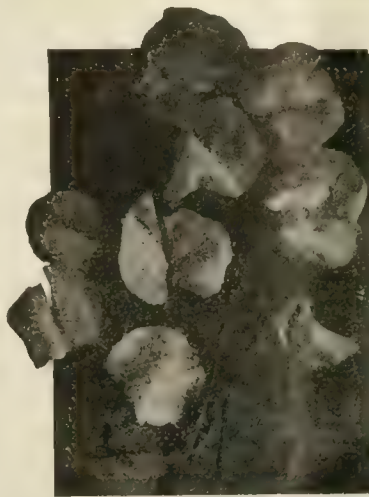
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LIST OF ADVERTISERS

Page	Page	Page	Page	Page
Advance Co.....264	Childs, John.....244	Grey & Co., T. J.....256	Mitchell, H. F. Co.....255	Robinson, Henry M. Co.....260
Allen, J. K.....261	Lewis.....256	Gude Bros. Co.....256	Michigan Cut Flower Ex.....258	Robinson, H. M. & Co.....258
American Bulb Co.....242	Clarke, D. Sons.....256	Hart, Geo. B.....258	Millang, Chas.....260	Roehrs, J. Co.....244
American Forestry Co.....253	Coan, J. J.....260	Heistad, H.....264	Muller-Sealey Co.....243	Roland, Thomas.....257
Anderson, S. A.....257	Cooke, Geo. H.....256	Henderson & Co., A.....258	Murray, Samuel.....256	Rosery, The.....256
Aphine Mfg. Co.....263	Conard & Jones.....253	Hess & Swoboda.....257	National Nurseryman.....262	Schwake, Chas. Co.....243
Barrows, H. H.....244	Cowee, W. J.....258	Hews & Co., A. H.....262	Nicotine Mfg. Co.....264	Sekenger, Adam.....256
Bay State Nurseries.....244	Craig, Co., Robt.....243	Hill Co., E. G.....258	Niessen, Leo Co.....258	Sheridan, W. F.....260
Bobbink & Atkins.....243	Danker.....256	Hill, D. Nursery Co.....253	Palmer, W. J. & Son.....257	Siebrecht, Geo. C.....260
Boddington Co., Inc., A. T.....254	Dards.....256	Irwin, R. J.....242	Park Floral Co.....257	Siggers & Siggers.....263
Bolignano & Son.....242	Dreer, H. A.....244	Johnston Bros.....256	Parshelsky Bros.....264	Skidelsky, S. S. & Co.....242
Boston Floral Supply Co.....260	Dunlop, John H.....257	Kasting, W. F. Co.....258	Penn the Florist.....256	Smith, Elmer D. & Co.....253
Breck, J. & Sons.....242	Dysart, R.....260	Kelway & Son.....242	Pennock, S. S. Co.....241	Smith, W. & T. Nursery Co.....253
Breck - Robinson Co.....243	Edwards Folding Box Co.....258	Kervan Co.....260	Pierce Co., F. O.....264	Smith, The Florist.....257
Breitmeyers, J. Sons.....256	Elm City Nurseries.....244	Knoble Bros.....257	Pierson, A. N.....241	Smith & Feters Co.....257
Budlong, J. A.....258	Farquhar, R. & J. Co.....242	Kroeschell Bros.....264	Pierson, F. R.....241	Smyth, Wm. J.....257
Bunyard, A. T.....256	Fengar, E. W.....243	Kuebler, W. H.....260	Pulverized Manure Co.....263	Stearns Lumber Co., A. T.....263
Burnett Bros.....242	Ford, M. C.....260	Kottmiller.....256	Randall Flower Shop.....257	Stumpp, G. E. M.....256
Burpee, W. A. & Co.....242	Fottler, Fiske, Rawson Co.....255	Lager & Hurrell.....253	Raynor, I. M.....253	Stumpp & Walter.....242
Carter's Tested Seeds, Inc.....242	Froment, H. E.....260	Lemon Oil Co.....263	Reed & Keller.....260	Young, A. L.....260
Chicago Flower Growers Asso.....259	Galvin, Thos F.....257	Liggit, C. U.....243	Reid, Edw.....258	Young, John.....260
	Gasser Co., J. M.....257	MacGregor, J.....264	Reuter, L. J. Co.....244	Young & Nugent.....256
	Graham & Son, A.....257	McHutchison Co.....253	Rice & Co., Jerome B.....242	Zech & Mann.....258
	Grakelow, Chas.	Marshall, W. E. & Co.....242		
		McKenzie, John.....257		

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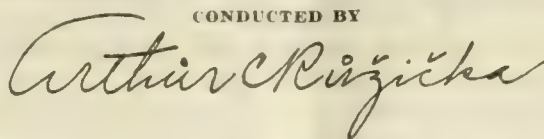
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Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Growing Roses in Old Soil

I have a large house devoted to lettuce growing at present. Will this soil be suitable to plant roses in, say, by the end of March? Benches are 5 inches deep; soil is good sod and cow manure. If so, it will save me a big item in spring, with saving of labor, soil and manure. Also do you think 5 inches sufficient depth for grafted plants, and are they the most profitable; also should the union be necessarily buried? I have heard of good results from both. If planted at time named, what treatment ought I to give them regarding building up a satisfactory bush to bloom from, say, end of September through winter? Any kind advice gratefully received. I always look forward for your article in HORTICULTURE.

A. R.

Although it may be possible to grow roses in old soil that way, I have never tried it or seen it tried, and I certainly would never advise any one to plant roses for profit in any old soil if they are to be grown the whole season. If you were planting them for the summer flowers only it would be different. There are more failures in roses due to just such savings as you mention than to any other cause. My advice would be, get fresh soil, clean the old soil out very clean, especially if your benches are solid, see that all the drains are well open, then dust some lime over the bottom, or else sprinkle a strong solution of copper sulphite evenly over the drainage in the bottom of the benches, whitewash the sides thoroughly, and see that all old soil is removed from the walks; if there are any leaky water pipes see that they are repaired. Also see that the sides of the benches are well straightened out and properly braced so that they will not give when the soil is put in. Another important item, see that the bottom of the benches are perfectly level so that the soil will not be deeper in one place than in another. If you have raised benches, see that they are well cleaned, washed off with a good pressure hose while the soil is still moist after wheeling. Needless to say all old soil must be scraped out from under the benches before any washing out is done. Then add some copper sulphate to your lime using wooden pails, as the copper sulphate would soon eat up any metal pail you used. Use hot fresh slacked lime, repair all benches first, making sure that there is enough drainage between the boards, then sprinkle your benches and apply the hot lime using it about the thickness of paste. The sprinkling is important as that will get your lime into all nooks and crevices which would remain unwhitewashed if you went over the benches when they were dry. See that every inch is well covered with lime, the thicker the better. It will help preserve the bench and be much healthier for the plants. Now as to soil. Get fresh soil and cow manure, chop the sod up well and see that it is evenly mixed. If you have never done it better wheel your soil in, then spread your manure over

it, then dust your bonemeal on, and then work the soil up with a trowel. It will be hard work but it will pay when you consider that you may grow the roses for two or three years in the same soil. As to the depth of the soil, do not use any more than four inches of soil in the benches when you wheel in. This will settle down to three as the sod and manure settle. See that you firm the soil well around the edges of the benches or you will have trouble with your watering later. In measuring for depth of soil rather have less than more as you can always add more soil. Regarding grafted stock you will have to try it out. Some growers do better with one, some with the other, and some have good results from both. If you plant four inch stock you will not be able to plant with the union below the soil, but get them down as low as you can without burying the plants, i. e., planting too deep, but there will be no danger from this if you use large plants. In planting, see that the ball of the plant does not get broken up. Some growers press the plant into the soil which is a sad mistake, as this breaks up the ball, and of course tears the roots all to pieces, and that is why some growers will say that the plants get a set back when they are planted out. Open the soil enough to make room for the ball of the plant and then bring your soil around it and press the soil to the ball. If the plants are at all rooted, you should be able to dig them out after planting with the ball intact as it came out of the pot. If you will plant by the end of March you should begin cutting in June unless you use very small plants. I would not pinch much unless you plant small plants and then only for the first four weeks, as the roses will have plenty of time to make large plants if you take care of them at all, and should bloom plenty during the fall and winter. Be sure, however, that you have heat enough, and that you have steam, and that your pipes are placed properly. If you are at all in doubt as to this, better have some engineer from one of the greenhouse building concerns go over the house for you, and then do as he says regarding the heat. This is very important, meaning success or failure. The charge for his service will be moderate, and will be money well spent. Then, too, you want to see that you repair all broken glass, that your ventilators are tuned up so that they open evenly, and you want to test the house for temperatures, as it may be necessary to break up the ventilators into different lengths to give you proper temperatures and air for roses. Also make sure you take out all glass that has too long a lap, cut off the offending part, and replace. Also rip down any lean-to that may be built on the front, that is, the south side of the house, so that the roses will get all the sunlight possible. It would also be to advantage to paint the house white inside next summer to make it as light as possible, and it will be necessary to go over the house with some preparation on the outside to seal it tight, so that there will be no leaks to drip down on the plants all the time. There will be more notes in HORTICULTURE every now and then, and if there is anything further that I can do for you, I shall be pleased to do so.

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CONTENTS

Page

ROSE GROWING UNDER GLASS—Growing Roses in Old Soil—Arthur C. Ruzickal.....	245
SOCIETY OF AMERICAN FLORISTS: National Publicity Campaign—A Movement in the Right Direction.....	247
CLUBS AND SOCIETIES: Chicago Florists Club—Florists' Club of Washington, Z. D. Blackistone, portrait—Stamford Horticultural Society—Holyoke and Northampton Florists' and Gardeners' Club—Nassau County Horticultural Society—Illinois State Florists' Association.....	248-249
OBITUARY—Daniel F. Sweeney.....	249
IN MEMORIAM	249
CARNATIONS, IDEALS, SUCCESS—M. J. Brinton...	250
OF INTEREST TO RETAIL FLORISTS: A Pleasing Flower Basket—Illustrated.....	251
Flowers by Telegraph.....	256
Have You Contributed?—Henry Penn.....	257
New Flower Stores.....	261
ARNOLD ARBORETUM BULLETIN—Draft Conifers.	252
SEED TRADE: The Mailing of Catalogues—European Seed Information	254
FLOWER MARKET REPORTS: Boston, Chicago, New York, Philadelphia, Rochester, Cincinnati, St. Louis, Washington.....	259
LOCAL AND GENERAL NEWS: Chicago, St. Louis, Rochester, Washington.....	261
MISCELLANEOUS: Personal	247
A New Spraying Schedule to Control San Jose Scale	251
Catalogues Received.....	254
New Corporations.....	261
How to Control the Onion Thrips.....	262
News Notes	262-263
Visitors' Register	263
Greenhouses Building or Contemplated.....	263

new quarantine against such plants and such little known sections of the world as are known to be dangerous. This is the intent of the act which gives Secretary Houston the power to establish plant quarantine. If his subordinates in office have mis-read or misconstrued the act, we have confidence that the Secretary will not hesitate to make suitable correction, of their unwarrantable and in our opinion, illegal action.

The landscape outlook

A recent advertisement for a topographical draftsman in a daily newspaper of an eastern city brought over twenty replies. Of these over half were from men of high ability—men who had formerly commanded large salaries, but who owing to present stagnation in their line of work were eager to get employment at any rate that would cover absolute cost of living. Of course there has been practically no development of large private estates, nor building of the more pretentious class of private residences for several years—the cost of building material and labor has been prohibitive, hence the unemployment of these men of highly specialized and technical training from the beginning of war conditions. HORTICULTURE perceives that a change for the better is imminent. Owners of estates are already taking in hand work which has been deferred for two or three years and there are many contemplated new residences awaiting only less excessive cost of material and labor for construction. That the present year will show substantial improvement over the past two, seems now assured—the resiliency of the great American people is already apparent and it behooves every florist and every nurseryman to set his house in order for a decade at least of increasing prosperity.

Resourcefulness

With the deprivation of so much of his raw material from abroad in the form of forcing plants, lily-of-the-valley, etc., due to war conditions and the possibility of future exclusion of the same, the florist is looking about to see with what if anything he may at least partially cover his losses and prepare himself to save his business. The task we admit is no easy one, and will prove too great for many now well-to-do florists who will find themselves powerless to provide substitute material, which in fact does not exist, in this country. The action of a few scientific zealots in thus jeopardizing interests, which have resulted from years of patient labor and saving seems to be of no consequence to these men who appear to be much more desirous to magnify their positions in the government service than to serve the public well. Many herbaceous plants and shrubs are being used now which were hardly considered by growers a few years ago. It takes time, however, to bring such material to the perfection necessary for market purposes—it also takes time to get acquainted with profitable methods of handling such plants as well as to adopt our facilities to suit the new methods required for their successful cultivation. Let us hope that at least some relief may yet come from the obnoxious Quarantine 37.

What will Secretary Houston do?

The eyes of American Horticulturists are now on Secretary D. F. Houston. Will he make proper amendment to Quarantine 37 or will he cause reasonable postponement of its application? HORTICULTURE believes that the proper course would be to rescind Quarantine 37 and to frame a

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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

NATIONAL PUBLICITY CAMPAIGN.

It has been a matter for comment that but few growers have, so far, subscribed to the Publicity Campaign Fund, although they are as much, or even more, interested in an increased sale of their products as wholesaler or retailer. In this connection, the following letter from A. L. Miller, the well-known florist and nurseryman of Jamaica, New York, is timely:

"Enclosed please find my check for \$100, my subscription to the National Publicity Campaign. I am greatly pleased to subscribe this amount toward the uplifting of our business. I cannot understand why so many of the growers are lax in helping this cause. In other lines of business, the manufacturers bear the main cost of the advertising. As in our line the grower is really the manufacturer, he should likewise be the chief advertiser, and here is a splendid chance for him to help himself. The society did wonderfully well last year, and should have no trouble in exceeding the mark set this year by at least one half. With best wishes for good luck,

"Yours very truly,

A. L. MILLER."

Mr. Miller's argument is sound, and admits of no contradiction. All growers are vitally interested in our effort to stimulate the movement of flowers. Whenever there are gluts in the flower markets the growers suffer, and with a greater demand for flowers there should be no gluts.

We need the utmost support of the growers this year, as it is the object of the Publicity Committees to raise \$100,000. As readers were informed last week, the members of these committees and our Executive Board are very sanguine as to a successful issue for the campaign this year, and have backed up their personal views with their increased subscriptions. When such a man as Philip Breitmeyer of Detroit thinks that his subscription of \$50 per month to the fund is not too much for the returns he reasonably expects every shadow of doubt as to the wisdom of subscribing should be

removed from the mind of the florist who is hesitating to pledge his \$10 to \$25 per year for the same benefits.

When helping the fund florists should help themselves also by using the different direct aids supplied by our Promotion Bureau. The slogan, "Say It With Flowers," cannot be used too much. Have it painted on your delivery wagons and cars, as many of the largest and most prominent florists in our big cities are doing. All shipping tags, wrapping paper, boxes, checks and stationery should carry it. The glass sign, or the transfer signs, should be displayed in or on store windows. In our forthcoming magazine advertisements the direction will be inserted: "Buy your Flowers from the Florists displaying this sign, 'Say It With Flowers.'" It is therefore very important that this sign be obtained at once if it is not already on display. Our Promotion Bureau is now putting into stock a large quantity of these signs, contracted for some time ago, so that all orders can be filled promptly.

Florists who use lantern slides for projection in moving picture theatres will be interested in some additions to the set already supplied. Look for a description of them in the March number of "The Journal of the Society of American Florists," or write to the secretary about them.

The campaign work is now being vigorously pushed. The greater the support we get from those it is to benefit, the greater the push. Don't leave this support to the proverbial "George"; he has done his part.

The following subscriptions have been received and are in addition to those previously announced, annually for four years unless otherwise stated:

Joseph Cleirico, 876 Manor St., Lancaster, Pa., \$3; John R. Shreiner, R. F. D., Lancaster, Pa., \$5; H. B. Weaver, Bird in Hand, Pa., \$5; Chas. B. Herr, Strasburg, Pa., \$5; N. Dugan, Winfield, Kan., \$5; Platteville Floral Co., Platteville, Wis., \$7; C. B. Thompson & Co., Louisville, Ky., \$25; John Miesen, Elmhurst, N. Y., \$5; Fietz-Taber Mfg. Co., 11 No. Water St., New Bedford, Mass., \$5.

Second Sub. for Four Years—Amos Rohrer, Strasburg, Pa., \$5; The Flower Shop, 112 So. Morton Ave., Okmulgee, Okla., \$5; K. Pederson, 36 "Wingside" Charlotte St., St. John, N. B., \$12.

For One Year—Ira H. Landis, Paradise, Lang Co., Pa., \$5; Edw. Blamenser, Niles Center, Ill., \$2; Amos Rohrer, Strasburg, Pa., \$5; Walter R. Denlinger, Vintage, Lang Co., Pa., \$5; E. P. Hostetter, Mannheim, Pa., \$5; Norman E. Stauffer, R. F.

D. No. 3, Lancaster, Pa., \$5; Fred Spinner, Lititz, Pa., \$5; Fred Rouf & Sons, 619 So. Queen St., Lancaster, Pa., \$5; Lemon S. Landis, 1202 E. King St., Lancaster, Pa., \$5. Additional Sub. for One Year—Huddart Floral Co., Salt Lake City, Utah, \$10. Total, \$139.00. Previously reported, \$32,221.50. Grand total, \$32,360.50.

JOHN YOUNG, Secy.

1170 Broadway, New York.

A MOVEMENT IN THE RIGHT DIRECTION.

Following is a copy of a letter sent to each state vice-president of the S. A. F. & O. H., by President Ammann:

It is my sincere belief that the Board of Directors, at the recent meeting in Detroit, launched a movement that will give our State Vice-Presidents an opportunity, such as they never had before, to be of real service in boosting the S. A. F. & O. H. The plan is as follows:

First: To have a State Florists' Association organized in every State in the Union.

Second: To secure enough members in both the State Association and the S. A. F. & O. H. to make the State President eligible to serve as a Director on the National Board.

Third: The job of perfecting such State Organization is up to the State Vice-President, and he is also to assist a Committee consisting of: Joseph Hill, Richmond, Ind., Chairman, Chas. E. Critchell, C. C. Pollworth, in making an estimate of the number of members required for the State, based upon the number of floral establishments in the State, to make the State President eligible to serve on the National Board.

This committee is to report to the convention in August. I sincerely hope you will see the great value of this organization plan, both for your State and for the National body, and will heartily co-operate with the above committee.

Yours truly,

J. F. AMMANN.

PERSONAL.

Geo. Hewitt is now foreman at Wyndhurst Gardens, Lenox, Mass. He formerly was employed at Branford Farms, Groton, Conn.

James Neil, formerly employed at Staatsburg, N. Y., has accepted the position of superintendent of the J. L. Thompson estate, Toledo, O.

The engagement is announced of Miss Ethel Nechtovice of 449 Walnut street, Roxbury, to Charles J. Sloane of the firm of A. Sloane & Sons, florists, in Hobbs building, Davis square.

CLUBS AND SOCIETIES

CHICAGO FLORISTS' CLUB

The regular March meeting of the Chicago Florists' Club was held on the 6th at the Hotel Randolph, president A. J. Zech presiding.

The following applications were made for membership:

Florence Keenan, 1306 E. 63rd St., Roy White, 2544 N. Clark St.; Michael Kedden, 820 W. 55th St.; B. E. Gould, Glenview, Ill.; Richard J. Gould, Glenview, Ill.; Peter Hoefeld, 172 N. Wabash Ave.; D. F. Simonds, 1917 Harrison St.; John Curren, 1457 Thorne Ave.; Arthur G. Eichel, 4226 N. Crawford Ave.; Chas. Grabig, 1843 Irving Park Boul.; F. W. Elverson, New Brighton, Pa.; Andrew Chronis, Adams & Wabash Ave

Reports were made by the following chairman of committees: T. E. Walters for the Good of the Club, F. Lautenschlager for advertising, and M. Barker for transportation to Champaign for the Ill. State Florists' Association meeting and a special committee with resolutions on the deaths of four members who have passed away since the new year.

A. Lange reported for the publicity committee that \$426.00 was spent in advertising St. Valentine's Day.

C. W. Johnson reported the change in the date of the meeting of the American Carnation Society and the completion of arrangements with the La Salle Hotel for the meeting in Jan. 1920. The committee is to be retained till after the meeting. The resignations of S. S. Skidelsky of Philadelphia and H. E. Philpott of Winnepeg were accepted.

There were a number of exhibits which were judged by Geo. Asmus, A. C. Craig and A. Lange.

Grass growing heads exhibited by H. R. Hughes were given honorable mention and the same was awarded a display of St. Patrick's Day and Easter novelties by Poehlman Bros. Co.

A suitable remembrance was ordered sent to H. N. Bruns who was ill in the Robert Burns Hospital. An interesting address was made by Mr. Duffield of the Chicago Association of Commerce. A recommendation by Walter F. Amling that ladies should be invited to become members of the club was well received.

A very interesting paper was read by Peter Pearson on his experience in growing bulbs of which he is now making a specialty with marked success.

FLORISTS' CLUB OF WASHINGTON

Z. D. Blackistone was re-elected president at the March meeting of the club held at the S. S. Pennock store. Other officers are Geo. E. Anderson, vice-president, Wm. F. Gude, treasurer, E. P. Rodman, secretary, and George Field and Capt. W. H. Ernest, executive committee. The secretary gave an account of the recent meeting of the Federal Horticultural Board and the S. A. F. & O. H., and Nurserymen's Association. A. W. Machen explained the method by which the florists should make out their income tax returns and answered many questions.



Z. D. BLACKISTONE

President Florists' Club of Washington. He was given a rising vote of thanks. Geo. C. Shaffer was appointed chairman of a committee to make arrangements for the April meeting at which the officers for 1919 will be installed and a banquet given. Edward S. Schmid and Geo. E. Anderson will assist him. The following applications for membership were received; J. Harper Hetherington, R. J. Lacy, J. D. Blackistone, J. J. Bickings and Geo. A. Comley.

The officers of the Syracuse Rose Society for 1919 are as follows: president, Dr. E. M. Mills; secretary, E. A. Bates; treasurer, Geo. E. Thorpe.

The Morris County Gardeners' and Florists' Society, Madison, N. J., has elected the following officers for 1919: president, Otto Koch; vice-president, S. Golding; secretary, Edw. Reagan; treasurer, Wm. H. Duckham.

STAMFORD HORTICULTURAL SOCIETY

The regular monthly meeting of this society was held Friady, March 7th, at Moose Hall, and if the members attended every meeting as well as they did this one, it will become necessary for the society to look for a larger meeting place. A committee of three was appointed to make a protest to the Federal Horticultural Board at Washington in regard to the embargo on nursery stock. Three new members were elected and four applications received. The following exhibits were awarded prizes: Carnation seedling and Carnation Rose Pink, gard. M. J. Quirk, highly commended; Carnations Benora and Enchantress Supreme, gard. Adam Peterson, cultural certificate; Carnation Washburn, gard. Wm. Morrow, vote of thanks.

L. C. Root, who has been in the bee keeping business for over fifty years, entertained the members with a very instructive talk, after which he answered in detail many questions raised by the members. Mr. Root proved to be a walking encyclopedia and the members gave him a well deserved rousing vote of thanks.

G. C. B.

HOLYOKE AND NORTHAMPTON FLORISTS' & GARDENERS' CLUB.

The regular meeting was held March 4th, with H. E. Downer, Smith College Plant House, Northampton, Mass. There was a good attendance, with President Keyes in the chair. There was a lengthy discussion on the prohibition of plant importations after June 1st, which brought out much criticism. Members who had not written a protest to their local congressman were urged to do so immediately. The awards for exhibits were as follows: H. E. Downer, white azalea, 85 points, which won the monthly prize; Gallivan Bros., sweet peas, 75 points; F. D. Keyes & Son, Primula obconica, 73 points. The judges were E. J. Canning, G. W. Thornley and E. Hennessey.

NASSAU COUNTY HORTICULTURAL SOCIETY

The 12th annual dinner of the society was held at the Glen Head Hotel on Wednesday, Feb. 26th, with an attendance of over one hundred. The dinner committee, consisting of Messrs. Ernest J. Brown, Ernest West-

lake and John W. Everitt, deserved much credit for their efforts. President Joseph Adler presided, and the toasts were responded to by Chas. H. Totty, Madison, N. J., James H. Cocks, James McCarthy, J. Walker, P. W. Popp, R. Frank Bowne, John C. F. Davis.

THE ILLINOIS STATE FLORISTS' ASSOCIATION.

At the meeting March 11-12, at Urbana, Ill., Secretary J. F. Ammann, presented the following report:

The year 1918 surely has gone down in history as the most eventful of our generation.

Many homes have been shattered; many a business man has gone out of existence. The florists of this state have suffered and sacrificed along with others. When we stop to think that one-tenth of the men, sent out for the greatest war came from Illinois, we have much to be proud of. No doubt when the records of this war are completed, it will also be shown that Illinois was among the foremost states in all the war activities. The patriotic expressions and actions of our state's chief executive are to be commended indeed.

Considering all the florists have had to contend with in the way of fuel and labor shortage, we can readily congratulate ourselves on the splendid condition in which we find our business.

As Illinois stood before the war, and as she so nobly responded during the war, so let us now strive, in the reconstruction, to keep her in the front rank in floriculture as well as in her ever spreading ideal for humanity and liberty.

We have no individual record of those of our members, or members of their families, who entered the service. So let us be content to have them on the Honor Roll and Service Flag of our Great State.

Reports in general of trade conditions throughout the state were never any better and prospects are very good for a bright future in our business.

There is a movement on foot in the S. A. F. & O. H. to organize a State Florists' Association in every State in the Union. With a view of having the President of each State Association made an affiliated member of the National Board of Directors, subject, of course, to the paid up membership in both the National and State bodies.

This should be of interest to the florists of every State in the Union, as it will help to tie up each individual with the work of the National Association. This will be of great value,

especially in the great publicity campaign.

Receipts for annual dues were \$40. No life memberships were taken out the past year.

PRUNE GRAPE VINES

With the approach of spring it is very important that all grapevines and other small fruits be pruned, sprayed, and given proper attention. Grapes especially need attention at this time. If the vines have not been pruned, do not delay but prune them at once. If the pruning is put off too long the vines will bleed and lose their vitality. There are two or three methods for pruning grapevines, but the main essential is to prune back the lateral branches that were formed last year, leaving about three or four buds; also, if the number of these branches is too great, they should be thinned out and only the stronger ones left.

The fruit is borne on the new wood formed during the early springtime, and the old wood simply serves as a basis for the production of this new wood. If the vines are left without pruning, a great number of new branches will be formed, the vines will be too thick, and the fruit small and inferior. It is a good plan to spray the grapevines with a commercial lime sulphur solution, at the rate of one part to nine parts of water. This spray to be applied before the buds start. Later, after the fruit has set, make two sprayings with Bordeaux mixture consisting of 1 pound of copper sulphate $1\frac{1}{2}$ pounds fresh stone lime, and 12 gallons of water. The copper sulphate should be dissolved in about 6 gallons of water, and at the same time the lime should be slaked in a little water, then diluted to 6 gallons, and the two solutions poured together and used immediately. This spray will go a long way toward preventing rot and mildew of the grapes.

A very simple method of protecting grapes from rot is to place a 2-pound bag over each bunch, tying the bag around the stem of the bunch by means of a short piece of string. The bunches of grapes will develop in these paper bags and will be protected not only from decay but also from bees and other insects.

Daniel F. Sweeney.

Daniel F. Sweeney, for several years an employee of McGee & Geary, florists, Salem, Mass., passed away March 3d. He was a faithful and conscientious worker and a lover of flowers. He is survived by his widow and two children.

In Memoriam

I have known Mr. Stewart for twenty-five years and I know from his past service, how much we shall miss him. In our Trade Councils, his advice and his presence was ever to be cherished. In his going, the family, the trade and the world has had a loss. May heaven be his reward.

J. F. AMMANN.

Edwardsville, Ill.

"Floriculture loses one of its most ardent admirers in the death of Mr. Wm. J. Stewart. There were few men better posted in floriculture than he was. The kindly spirit with which he was endowed and which he so willingly extended to all, will be remembered by many who were so fortunate to have known him.

It was my good pleasure to have known him for over forty years, and I enjoyed with others, the good which he so freely gave to all. Peace be with him, and with his dear family.

PHILIP BREITMEYER.

Detroit, Mich.

I just learned of Mr. Stewart's death upon my return from the South and want to take this first opportunity to express my sympathy.

Since losing my own father a few years ago I feel that I am better able to share in the sorrow of others. And I know what a great loss Mr. Stewart's death must be not only to his own family but to his wide circle of friends and to the entire trade in general.

I have always taken a great deal of interest in Mr. Stewart's work and I realize how greatly handicapped HORTICULTURE must now be without his able guidance.

DAVID BURPEE.

Philadelphia, Pa.

It had been my pleasure to meet Mr. Stewart in Boston once, and never in all my life have I ever met such a whole-hearted and all round good fellow, and I can imagine how his friends in Boston and elsewhere who had a better opportunity to know and mix with him than I had will feel. Men of such unselfish principle as he was are mighty scarce and far between, and his going leaves a vacant place hard to fill, and what a beautiful world this would be to live in if there were more such men as William J. Stewart, irrespective of his power and abilities as Editor in Chief of HORTICULTURE and his wide knowledge and experience in all that pertains to the beautiful. I liked him as a man.

PATRICK FOY.

Roanoke, Va.

CARNATIONS, IDEALS, SUCCESS

Paper by M. J. Brinton, Read Before the Florist Club of Philadelphia at its March Meeting.

By way of introduction I wish to say, I cannot assume the responsibility of telling this gathering how to grow such flowers as you have here on the exhibition table. I want to omit soils, temperatures, antidotes for insect and other enemies. What I wish to say is of the man who grows them, handles them and even uses them.

The history of the Divine flower, from its birth through all the varied degrees of its development as it stands before you this evening, has been rehearsed, discussed and ably described before this club.

There may be recent discoveries of means for propagation and cultural methods of which I am not familiar and of which some of you have not yet heard. I shall have to leave it to him who does know to tell you of them.

Where it has been my privilege to see this flower at its best, success has been attained by methods that are common knowledge to most of you.

This word "Success" has varied meanings. What does it mean to you? Analyze it from your individual viewpoint. Is it the volume of worldly possessions alone that you or your neighbor have been able to accumulate? Suppose we grant that this is the ordinary conception of its meaning. Therefore, any man, who has been able to maintain an economic balance throughout his life, is a success to a greater or less degree. A 50-50 man represents the lowest degree of success on this basis for our rating; he has been able to quit square. Statistics reveal some startling records relative to human effort and its relation to this balance.

To the Insurance companies, with their perfected organizations and their intimate knowledge of the personal affairs of millions of us, we can refer for these facts. Beginning with a hundred average men, age 25; we find, thirty-five years later, thirty-six are dead, fifty-three are dependent on relatives or charity, six are self-supporting, and five are well-off. When all have passed over the Great Divide, sixty-seven had been dependent upon someone else to defray funeral expenses, and only five had estates exceeding \$5,000.

This is not a particularly cheerful outlook for the young man who is just getting well started at 25.

What is the cause of this condition? Is it lack of education? Is it because we are not willing to make the personal sacrifice to be in this select class of 5 per cent? Are we over-ambitious and take risks that can break or cripple us, if we have erred in judgment? Are we too easily influenced by sales agencies, regardless of the method used to reach our pocket-books?

In answer to your question, "What has this to do with carnations?" I shall reply,—that the rudiments of success are not materially different in the production of this article of trade

from that of any other.—It is the foreseeing and forestalling of the factors that hinder the highest development. It is the man who can check his troubles when they are in their infancy.—Almost any of us can effect some sort of a cure, even though the cure be as bad as the disease, but it is the maintaining of conditions that do not require a cure, that give us the best and most consistent returns.

While in the growing of carnations there are seasons and elements over which we do not have control, and at times I have tried to excuse myself for not getting better results for these reasons, but when I see all kinds of houses and soils and seasons producing splendid results, I feel that finally it is the man. I recently looked over probably 12,000 plants of "White Perfection" that seemed to leave little to ask for. Some of us thought this variety had passed on to the list of discards. "The cause of success is in the fellow who succeeds."

The production and trial of new varieties is interesting, is essential and supplies us with something to look forward to; it adds charm to the work. However, as I look back to the days of "Grace Wilder" and "Portia", and even to "La Purity" and "Edwardsii", I believe it to be best to try out the new candidates for favor in a limited way until their value is pretty well established. I shall not recall some of the notable instances where much heralded varieties have become strewn on the rocks of shy bloomers, weak stem, poor color, broken calyx and bad keepers.

There is another kind of success: it may be associated with material success, but not necessarily to any marked degree. It is the achieving of an ideal,—the realizing of the mental conception that we regard as a standard of excellence.

Cannot it also be the answering to a hope? Allow me to cite "Mrs. C. W. Ward", "Matchless" and the masterpieces from the hands of Fisher and Dorner. Can we not look to these for the answer to a hope as it applies to our subject for this evening? Do we not all owe a debt of gratitude to the patience and skill of selection that has produced these and other varieties which have stood the test? It is the services of these lovers of the beautiful that we value too little. It is their assembling of the qualities and beauties usually seen in different individuals of their kind, eliminating almost everything defective, that has set these men apart from the rest of us. These are our super-men. Their efforts have not been confined to limited hours. The joy of realizing the ideal holds them to years of painstaking care and attention.

Probably he, who has his heart in his work and whose ambitions are not too largely guided by a mercenary return, feels most keenly the last analysis of this word success, "The attain-

ment of one's aims and the realization of one's personal possibilities."

Every one has his ideals on some subject and "it is the faculties of the human mind that are the tools to produce them."

We are living in a period of all kinds of extreme, idealistic suggestions. The hybridizer has his mental picture of his perfect flower or fruit; the mechanical genius, his flawless machine; the politician, a satisfied constituency; the statesman, with his Ideals of Government and control; the libertine, who wants no restraint at all; the social student with his Ideal of Democracy, who says the masses have the right to decide and determine.

Have the knocks of business life made some of us too practical? Sometimes I feel that within it all, so many of us have become the foot-ball for the others.

From the beginning there have been leaders of men, and let us hope until the end there may be those whose sight and vision are not clouded and whose will is unyielding in the defense of the just reward of diligent service and of the home—the social center.

The super-man is not selected or chosen; he asserts himself in every field of effort. This is part of the florist business; it is part of every business and ours in particular. The product of our work is dedicated to the expression and preservation of life's richest sentiments centered around a stabilized home.

The pendulum of human events swings with the ideals of our super-men, and he who can absorb the shocks is the man that succeeds.

The experimenter and theorist are abroad. I think they must have had a hand in the new import rulings; few of us are such specialists that we are not effected to a greater or less degree by these decisions.

Anything we can do for each other will be beneficial, our interests are mutual; there can be no store or wholesaler without the grower, and very few growers without these distributing agencies. Co-operation spells success.

What lesson can we gain from our trials of the recent past? We were then confronted by rulings, the wisdom of which I do not question, and conditions that discouraged us all, closing up some of the weaker ones entirely. Let us look forward and believe difficulties are not made to break us; every trying situation we can overcome strengthens us for a harder one. It is the weeding out process that never ends. We have learned that the man who can stay in the game has been and will be rewarded for his determination.

There has been much comment in our trade papers and elsewhere as to the effect of high prices. Probably each view-point represented the selfish

interest of the individual to some degree. Was it not a natural condition governed by cause and effect? The old law of supply and demand has in the past eventually been the price regulator, and is it not safe for the present and future? Cannot our own publicity in criticism of high prices drive more customers from the counter than all other causes? Why not a united front, facing together the true situation?

There is a conservation that is not narrow or prejudiced, and there is a liberalism that is not reckless.

The future is a problem for which no one has the answer. Let us be conservatively optimistic in believing there has been no time when the need and opportunity has been greater for us to go steadily forward. In the absence and shortage of some items, make the best use of what there is to work with, filling our empty benches with whatever there is at hand, in the faith, that, if well done, the public will value it.

The conflicting ideals of a radical, restless, unsettled people, need at this hour all the soothing, sweetening, inspiring influences that have been given to us to mellow them. Let us do it with flowers. Success will follow him who is unafraid.

A NEW SPRAYING SCHEDULE TO CONTROL SAN JOSE SCALE

A new spraying schedule for the control of San Jose scale, designed to eliminate the expense of one spraying by combining the dormant and first summer sprays in apple orchards, is announced by T. J. Talbert of the University of Missouri College of Agriculture.

The dormant or San Jose scale spray consisting of commercial lime-sulphur, testing 33 degrees Baume, may be applied to apple trees at a dilution of 1 to 7 or 1 to 8 after growth starts and up until the cluster buds separate and the pink petals of the flower buds begin to show, without material injury to the leaves or flower buds. If this strong spray is applied after the leaves are out and when the buds begin to show their petals, it takes the place of the so-called cluster-bud or first summer spray. It therefore eliminates the cost of labor and materials for one summer application in apple orchards infected with San Jose scale.

Mr. Talbert admits that this recommendation is not in harmony with established spraying schedules for the control of San Jose scale. Most authorities advise that this concentrated spray be used only during the dormant period of the apple tree. A few later publications state, however, that the fruit grower should wait until the buds swell or growth starts in order to obtain the best results. None states, however, that the so-called dormant spray for the control of San Jose scale may be applied to apple trees at a later stage of development, without severe injury. In fact it has been the general opinion of entomologists and horticulturists that this strong lime-

A PLEASING FLOWER BASKET.



Progressive florists are constantly striving to keep out of the ruts which so many get into in their floral work and in the material used. Beautiful as a well-arranged basket of roses, carnations, violets or other staple florists' flowers may be, yet the use of the same things continuously soon becomes monotonous and the public are always disposed to favor anything out of the ordinary as a change. The basket shown in our illustration has the pleasing quality of uniqueness combined with simplicity. Ixias, clivias and adiantum are the material used and it is to be presumed that the

color of the basket and the handle ribbon were in proper harmony with the tints of the flowers used. How fine it would be if we only could reproduce these floral pictures in their natural colors, for color combination is in many cases their strongest feature. The ingenuity and taste exercised by the manufacturers of flower baskets in recent years and the enterprise of the dealers in such supplies have been a great help to the florist, furnishing him with the wherewithal for the production of artistic efforts that otherwise would be practically impossible.

sulphur solution could not be applied just before the fruit blooms appear without danger of serious injury to the leaves and flower buds.

The fact that the lime sulphur spray for the control of San Jose scale can be used after growth begins and up until the first blossoms appear should be of great value to fruit growers who for any reason have neglected to apply the spray during the dormant season.

Since it is necessary that the work be done carefully to insure against unfavorable results, Mr. Talbert suggests that the grower try the new schedule on a small block of trees this spring.

If he finds he has done the work properly the schedule can then be adopted for practice over the orchard generally next year. The strong spray applied at the time recommended is very effective in killing San Jose scale. The late concentrated spray has also been found to be of great value in controlling aphids or plant lice, oyster-shell scale, surfy scale, Forbes' scale, spring canker worm, bud moth and other sap sucking and leaf eating insects. This strong solution is also effective in controlling apple scab and it is believed to be an important application against other fungous diseases such as Illinois canker, black rot, etc.

ARNOLD ARBORETUM BULLETIN.

Dwarf Conifers. Of many of the cone-bearing trees there are abnormal dwarf forms, and a few conifers are naturally dwarf shrubs. The former are of different origin; most of them are seedlings, some have grown from buds on branches of large trees, and others have been produced by exposure to excessive cold and high winds, and these when transferred to more favorable surroundings often lose their dwarf habit. A good example of a dwarf of the last class is the depauperate Larch which grows at the timber line on Mt. Fugi in Japan. Seedlings of this little plant raised in the Arboretum twenty-five years ago are now nearly of the same size as the seedlings of the trees of the Japanese valleys raised at the same time. In the sandy swamps of Prince Edward Island Black Spruces not more than two feet high produce cones and fertile seeds, and near the timber line of the White Mountains it is possible to walk on dwarf mats of the Balsam Fir which lower down on these mountains is a tall tree. Transferred to better soil where the winter climate is less severe these alpine and boreal dwarfs would soon assume the tree habit of the species. Dwarfs of some species, however, which evidently owe their habit to environment, retain the dwarf habit when transferred to more favorable surroundings. Such dwarfs are some of the forms of the European *Pinus montana* from high altitudes and some dwarf forms of Junipers which reproduce the dwarf form in their seedlings. Seedling dwarfs have been produced by many different species, but they are naturally most numerous in species which have been largely raised in nurseries where seedlings are carefully watched and abnormal forms are preserved. It is not surprising, therefore, that trees like the eastern Arbor Vitae and the Norway Spruce have produced many such forms in nurseries as few other cone-bearing trees have been so largely raised from seed.

It is only in recent years that dwarf conifers have attracted much attention, for Loudon in his "Arboretum et Fruticetum Botanicum," published in 1838 enumerates only ten. These are two dwarf forms of *Pinus montana*, two forms of the Norway Spruce, a dwarf Cedar of Lebanon, a dwarf Red Cedar (*Juniperus virginiana*), a prostrate form of *Juniperus sabina*, and two dwarf forms of *Juniperus communis*. He knew no dwarf Arbor Vitae, *Chamaecyparis*, Hemlock, or dwarf form of *Abies*. Beissner in the second edition of his "Handbuch der Nadelholzkunde," published in 1899,

enumerates one hundred and four dwarf conifers in thirty-one species; of these twenty-five are forms of the Norway Spruce, eight are forms of Lawson's Cypress (*Chamaecyparis lawsoniana*), and eight are forms of the Arbor Vitae of the eastern United States. In addition to the plants enumerated by Beissner there are a few which originated in this country and which do not appear to have been known to him.

There is a good but by no means a complete collection of dwarf conifers in the Arboretum, for it is difficult to keep track of the new forms which appear in the nurseries where large numbers of conifers are raised from seed and are often given names without descriptions, and some dwarfs like those of Lawson's Cypress and the Chinese Arbor Vitae are not hardy here. The Arboretum collection is much visited, however, by nurserymen for there is now a demand for these plants, which have their uses in small gardens and are less happily planted in making low banks of foliage about the base of suburban cottages.

Perhaps the handsomest of the dwarf conifers in the Arboretum collection is a form of the Japanese *Pinus densiflora* (var. *umbraculifera*). This is a wide, vase-shaped plant which in Japanese gardens is often ten feet high and broader than high. The leaves are of a bright cheerful green and comparatively small plants flower and produce minute cones. Among the fourteen or fifteen dwarf forms of the Norway Spruce none is handsomer than one of the varieties described by Loudon in 1839 (var. *Clanbrasilliana*). This is a low, very compact, round-topped bush which rarely grows more than three feet high but spreads to a diameter much greater than its height. The plant is said to have originated on the Moira estate near Belfast, Ireland, toward the end of the eighteenth century and to have been carried to England by Lord Clanbrasil for whom it was named. Equally good is the variety *nana* which has a flatter top and does not grow as tall as the *Clanbrasilliana* but spreads into a broad bush. The subglobose var. *Gregoriana* and the variety *prostrata* are interesting plants. Some of the dwarf Norway Spruces, especially the variety *Ellwangeriana*, have a tendency at the end of a few years to form a vigorous leading shoot and eventually to become arborescent.

Two dwarfs originated in the Arboretum in 1874 among seedlings of *Picea pungens*, the Colorado Blue Spruce and *Abies lasiocarpa*. The original plant of the former is now

seven feet high and ten or twelve feet in diameter, and has so far escaped the loss of branches which disfigures this Spruce after it is thirty years old. Although well worth the attention of lovers of dwarf conifers, *Pinus pungens compacta* is little known beyond the limits of the Arboretum. The seedling of *Abies lasiocarpa* retained its dwarf habit for many years but has now begun to grow more vigorously and to assume the typical habit of the species. The dwarf of the European Silver Fir (*Abies Picea compacta*) behaves here in the same way and after a few years grows out of its dwarf habit. There is in the collection a small plant of a dwarf of *Abies concolor* which is very compact, but it is too soon to speak of its value. The well known dwarf of the Balsam Fir (*Abies balsamea* var. *hudsonica*) is a real dwarf only a few inches high. A number of seedling forms of the White Pine (*Pinus Strobus*) and of the Scotch Pine (*Pinus sylvestris*) are in the collection, but the best known and most generally planted dwarf Pines are the mountain forms of the European *Pinus montana* which appear in the catalogues of nurserymen as *Pinus pumilio* and *P. Mughus*. There are many forms of this hardy dwarf; they are broad shrubs with erect or semi-prostrate stems and are rarely more than ten feet high, but often much broader than tall. Seedlings of these plants show great variation in size and habit, and new forms are constantly found in nursery seed-beds. The dwarf form of the Douglas Spruce (*Pseudotsuga Douglasii* var. *globosa*) has proved one of the slowest growing of these plants in the Arboretum collection.

In the common Hemlock of eastern North America the tendency to variation in seedling plants is unusually strong and dwarfs differing in size, shape and vigor are often found in the neighborhood of Hemlock groves. Some of these have been propagated and have received names but as different names have been used for the same or nearly the same forms it is not now possible, even if it were desirable, to distinguish all these dwarf Hemlocks by name.

Among the seedlings of the Arbor Vitae of eastern North America are found some of the handsomest of the dwarf conifers. There is a large collection of abnormal forms of this tree in the Arboretum collection and among them none are better than those called "Little Gem," *compacta* and *Hoveyi*. Seedlings of the Japanese Retinosporas (*Chamaecyparis obtusa* and *pisifera*) show, too, a great tendency to variation. One of the

handsomest of these forms is *C. obtusa nana*, a compact, pyramidal, slow-growing plant. The largest specimen in the collection is now about eight feet tall. Other forms of *C. obtusa* are compact mats which show little indication of growing more than a few inches high. In the collection there are among others dwarf forms of *C. pisifera*, plants with yellow-tipped branches and others with yellow and with white leaves and plants of the variety *filifera* with green and with yellow leaves.

Among the Junipers are found some of the most useful dwarf conifers. Some of these are forms of arborescent species and others are natural dwarfs which reproduce themselves from seed. Among the former are three varieties of the so-called Red Cedar of the eastern states (*Juniperus virginiana*). One of these (var. *globosa*) is a compact, round-topped bush taller than broad, and in the Arboretum collection where it has been growing for fifteen years it is about three feet high. The history of this plant is not known at the Arboretum. It came here from Holland and probably originated in a European nursery. The variety *Kosteriana* forms a wide open bush with erect and spreading, gracefully arching stems from two to three feet tall. This is an unusually handsome plant which will prove useful for the margins of beds of taller growing conifers. This variety probably also originated in a European nursery. More interesting even than these nursery forms of the Red Cedar is a plant which grows on a few wind-swept cliffs on the coast of Maine. Plants of this form are not more than eighteen inches high, with prostrate stems which spread into dense mats sometimes fifteen feet across. These plants bear fertile seeds, and there are seedlings, grafted plants and young collected plants growing in the Arboretum, but it is too soon to judge if they will retain the habit of the wild plants when planted in less exposed situations. If this form of the Red

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Cedar retains its dwarf habit in cultivation it will be one of the handsomest of the prostrate Junipers. Of *Juniperus chinensis* there are a number of interesting shrubs in the Arboretum collection. The handsomest of these, var. *Pfitzeriana*, which grows in the form of a low broad pyramid, is the most satisfactory of all Junipers in this climate. Fortunately it can now be found in most American nurseries. There are dwarf round-topped forms of *J. chinensis* with green and with yellow leaves which are less than a foot high; and a form of this Juniper, var. *Sargentii*, from northern Japan with prostrate stems makes mats now eight or ten feet across here. This is a form reproducing itself from seed and has proved to be one of the best of the mat-like Junipers in the collection. With the exception of the dwarf form of the European *J. sabina* (var. *minor*), the lowest Juniper in the collection is *J. horizontalis* which has long prostrate stems with blue-green or in some forms steel blue leaves. This is a North American plant which is widely distributed from the coast of Massachusetts to British Columbia. There are fine masses of this plant in the collection. Less well known is *J. conferta*, another species which covers with long prostrate stems the sand dunes on the coast of Japan. Raised first in the Arboretum three years ago from seeds collected by Wilson in

northern Japan there is every reason to believe that this will prove a useful plant in this country. Another prostrate Japanese Juniper, *J. procumbens*, is better known. It is distinguished by its sharply pointed leaves marked on the upper surface by two white lines. This Juniper has not produced seeds and is not known except as a cultivated plant; it is planted, however, in nearly every Japanese garden and has been much planted in California and occasionally in the eastern states. A dwarf Juniper, *J. communis* var. *depressa*, covers thousands of acres of hillsides in the northeastern states where many forms occur differing in the height and in the width of the leaves. These are coarser and less desirable garden plants than *J. horizontalis* and the different low-growing varieties of *J. chinensis* and *J. virginiana*.

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The Mailing of Catalogues.

We print herewith a copy of an article issued by the Third Assistant Postmaster General and have been informed that while this article is framed in the terms of a suggestion, it is in fact an order that will be rigidly enforced and that after March 31st catalogues that weigh less than eight ounces that are over 4 x 9 inches in size cannot be received for mailing. This order, it is claimed, will be general throughout the United States. Catalogues weighing more than eight ounces of course come under the Parcel Post regulations.

If this article is defined correctly it certainly will work a hardship on many of the Seedsmen for the mailing of their catalogues this year after the date stated above and will seriously affect their plans for next year.

It means that they will have to fold in two, beautifully lithographed covers and in this way seriously affect their effectiveness when they reach their addresses.

USE OF ENVELOPES OF UNUSUAL SIZE OR IRREGULAR SHAPE OBJECTIONABLE
(Office of Third Asst. Postmaster General, Washington, D. C., June 3, 1918.)

Many persons and concerns are mailing letters and other matter in envelopes which are of such size or shape as to cause serious difficulty in handling the matter in the mails, in some cases the envelopes are extremely large or very small, while in other cases they are of triangular shape, circular or other irregular shape. It is frequently necessary to cancel the postage stamps on such matter of unusual size or shape by hand, as the matter can not be run through the canceling machines. In many instances the matter does not fit the separating cases and can not be tied with the ordinary packages of mail without being folded or cut by the package string. This imposes additional and unnecessary labor upon the postal service, prevents the expeditious treatment of the matter, and often results in its reaching the addressee in a mutilated condition.

Furthermore, many envelopes are made of such dark colored stationery or bear on the address side so much printed matter in addition to the address that they contravene the provisions of paragraph 3, section 470,

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In every case not less than 3½ inches of clear space should be left at the right end of the envelope on the address side in order that there may be ample space for postage stamps, postmarking, address, directions for forwarding or return, etc.

Postmasters are requested to take the matter up with their patrons who use envelopes of the kind referred to and advise them of the many objections thereto and the impairment of the efficiency of the postal resulting from their use. The desirability and advantage of mailers using envelopes of uniform size which may be pointed out, and the importance of co-operation in this respect should be emphasized. To this end it should be suggested that the use of envelopes which do not exceed approximately 4 inches by 9 inches in size and on which ample clear space is left on the right portion of the address side for the address, postage stamps, etc., will serve to accomplish the desired object and result to the advantage of both the mailers and the postal service.

The foregoing applies with equal force to the use of advertising cards, folders and similar matter of unusual size or irregular shape as set forth in the instructions of this office in Article 14, page 4, of the February, 1918, Postal Guide, entitled "Use of Large Advertising Cards Objectionable."

A. M. DOCKERY,
Third Ass't P. M. Gen.

EUROPEAN SEED INFORMATION.

The seed survey conducted in Great Britain has revealed the fact that with but few exceptions the quantity of each of the kinds of agricultural and garden seeds available this season is greater than that available last season. Even in the case of red clover seed, Great Britain's supply seems to be in excess of its own planting requirements, and some of the French and Italian seed that had been imported to Great Britain is being exported.

Letters and cablegrams from the representatives of the United States Department of Agriculture, who have been in Europe for the past two months, do not indicate that there will be an early active demand in England for any of the seeds commonly exported by the United States, except meadow fescue seed. It is possible that Russia and a few of the other countries might need a considerable quantity of our seeds, but by the time transportation, monetary, and other difficulties clear up it is thought that European surpluses of various kinds of seeds gradually will filter into Russia and elsewhere, thereby leaving

no appreciable opening for American seed.

It is understood that the acreage planted to root crop seeds in England is larger than usual, but some of these crops have suffered somewhat from unfavorable weather, which also has had its effect on delaying the threshing of some of the important vegetable seed crops.

CATALOGUES RECEIVED.

Glen Road Iris Gardens, Wellesley, Mass.—Iris seedlings raised by the proprietor, Miss Grace Sturtevant.

Sluis & Groot, Enkhuizen, Holland.—General Price List of Vegetable and Agricultural seeds, 1919, with instructions as to import licenses, etc.

Framingham Nurseries, Framingham, Mass.—Spring 1919 Trade Price List. A well-arranged, concise list of most desirable evergreens, rhododendrons, roses, vines, fruit trees, small fruits, etc.

Harlan P. Kelsey, Salem, Mass.—Kelsey's Hardy American Plants, Rhododendrons, Azaleas and Specimen Evergreens, Spring, 1919, grown at their Boxford Nursery, Boxford, Mass., and Highland Nursery, Pineola, N. C. A most comprehensive list, illustrated.



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FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

G. E. M. STUMPP
761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

YOUNG & NUGENT

**42 West 28 Street
New York**

Member Florists' Telegraph Delivery
NO ORDERS ACCEPTED FOR LESS
THAN \$5.00

DANKER

Albany, New York

The best of F. T. D. Service always

CHICAGO

Send Your Orders to

WILLIAM J.**SMYTH**Member Florists' Telegraph
Delivery Association**Michigan Ave. at 31st Street**Prompt Auto Delivery
Service**THOS. F. GALVIN**

INC.

NEW YORK 561 Fifth Ave.
Vanderbilt Hotel**BOSTON** 1 Park Street
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Deliveries to Steamers and all Eastern Ports

KNOBLE BROTHERS

Member Florists' Telegraph Delivery

We are well equipped to handle
your orders.

1836 W. 25th Street CLEVELAND, O.

THE SMITH & FETTERS CO.735 Euclid Avenue
CLEVELAND, OHIO

Flowers of Every Kind in Season

CLEVELAND**A. GRAHAM & SON**

5523 Euclid Ave.

Will take good care of your orders

Members of F. T. D. Association.

Retail Deliveriesto central Hudson River points, on
Telegraphic Order.**WOOD BROS.**

FISHKILL, N. Y.

S. A. ANDERSON

440 Main St., Buffalo, N. Y.

ANDERSON service means fresh, sturdy
stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK.

Member Florists' Telegraph Delivery

HIGH GRADE PLANTS

For Retail Stores a Specialty

ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.**WORCESTER, MASS.**

Randall's Flower Shop

HARRY I. RANDALL, Proprietor.

Member Florists' Telegraph Delivery

HAVE YOU CONTRIBUTED?

Walter Scott said "When a man has not a good reason for doing a thing he has one good reason for letting it alone" and I suppose this must be the reason why so many thousands of florists have not contributed to our campaign fund.

We have every reason to believe that many florists would have contributed last year but for the fact that it was some hard year. But what have we to say about the past six months? Have we not gone over the top, as it were? Has not the Publicity Campaign met with your approval?

Has it been objectionable so that it has undignified our noble calling or has it been the means of your losing thousands of dollars of business that you might have had otherwise? If it had done all this you would undoubtedly have the proper right not to be willing to contribute. But if it had not done all this do you not think it fitting that you too should have done your share instead of letting your neighbor do it for you. We have a campaign of Publicity that will be a factor for the success of the sale of more flowers for 1919, that you will probably want to know more about.

Our Promotion Bureau, under the guidance of John Young, will give information that will create more business for you than you could possibly get through any other channel. If you are interested in your business get next. It has been said that the secret of success is constancy of purpose, and I guess you mean to stick if you will but follow those who are so willing to give, and have proven it in many cases by increasing their subscription for the second year.

Send in a subscription and you will be amply rewarded.

HENRY PENN, Chairman,
National Publicity Campaign.

Quality and Reliability

WARBURTON

FALL RIVER, MASS.

Deliveries of Flowers and Plants
in FALL RIVER and contiguous
territory.**EAST ORANGE, N. J.****SMITH, The Florist**

We deliver by automobile in East, West
and South Orange, also Glen Ridge, Mont-
clair, Bloomfield, Newark and New York.

ST. LOUIS, MO.**FRED C. WEBER**

4326-28 Olive St.

Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only**THE J. M. GASSER COMPANY,****CLEVELAND**

Euclid Avenue

The Far-Famed Flowers of

TORONTODelivered on mail or telegraph order for
any occasion, in any part of the Dominion.**JOHN H. DUNLOP**

4-10 West Adelaide St. - TORONTO, ONT

HESS & SWOBODA

FLORISTS

Telephones 1501 and L 1532

1415 Farnum St.

OMAHA, NEB.**Efficient Delivery
Service**

ALL BOSTON SUBURBS

JOHN MCKENZIE

1927 Mass. Ave., CAMBRIDGE, MASS.

PHILADELPHIA**CHAS. H. GRAKELOW F.T.D.**

Everything in Flowers

Broad Street at Cumberland

The Park Floral Co.

B. E. GILLIS, President.

E. P. NEIMAN, Secretary.

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DENVER, COLORADO

ROSE PLANTS

OPHELIA

DOUBLE WHITE KILLARNEY

2½-inch pots, \$90.00 per 1000. Fine stock, cuttings made from two and three eye cuttings.

THE LEO NIESSEN CO.

1201 Race Street, PHILADELPHIA, PA.

Asparagus Plumosus Nanus

New Crop, Greenhouse Grown Seed.
Per 100, 45c.; per 1000, \$3.50.

PRIMULA OBCONICA GRANDIFLORA

Home grown. Saved by florists who know their business. Ready now.

GIGANTEA ROSEA. Seed saved from plants with large flower trusses and a beautiful shade of pink. Trade pkt., (about 1,200 seeds), \$1.50.

BENCH GROWN ROSES

Ready for Shipment Now
Per 100 Per 1000
RICHMOND...\$10.00 \$90.00 MILADY.....\$10.00 \$90.00

Will have other varieties later. Write for prices.

A. HENDERSON & CO., 166 N. Wabash Ave.
CHICAGO

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$2.25 50,000...\$9.75 Sample free.
For sale by dealers.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

E. G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

The House for Quality and Service

ZECH & MANN

We are Wholesale Florists Doing
a Strictly Wholesale Business

30 East Randolph Street, CHICAGO

**IF You Want Anything from Boston Get It
From Henry M. Robinson & Co.**

For Safety Place Your Orders With Us

HENRY M. ROBINSON & CO.

2 Winthrop Square and 32 Otis Street, BOSTON, MASS.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Mar. 13	ST. LOUIS Mar. 1c	PHILA. Mar. 10
Roses			
Am Beauty, Special.....	100.00 to 125.00	50.00 to 60.00	..... to 100.00
" " Fancy and Extra.....	50.00 to 75.00	30.00 to 40.00	50.00 to 75.00
" " No. 1 and culls.....	30.00 to 50.00	12.00 to 20.00	25.00 to 35.00
Russell.....	12.00 to 25.00	10.00 to 35.00	10.00 to 30.00
Hadley.....	12.00 to 25.00	5.00 to 10.00	10.00 to 30.00
Mock, Key.....	4.00 to 15.00	5.00 to 25.00	..... to
Arenberg, Hoosier Beauty.....	4.00 to 15.00	10.00 to 15.00	5.00 to 15.00
Ward, Hillingdon.....	4.00 to 15.00	4.00 to 8.00	..... to
Killarney, Key, Taft.....	4.00 to 15.00	6.00 to 12.00	4.00 to 12.00
Ophelia, Sunburst.....	4.00 to 15.00	4.00 to 15.00	5.00 to 15.00
Carnations			
Cattleyas.....	4.00 to 6.00	4.00 to 6.00	4.00 to 8.00
Lilies, Longiflorum.....	50.00 to 75.00	50.00 to 75.00	50.00 to 60.00
Lilies, Speciosum.....	12.00 to 20.00	20.00 to 25.00	12.50 to 20.00
Callas.....	8.00 to 20.00	..... to .....	..... to
Freesia.....	16.00 to 20.00	15.00 to 20.00	12.50 to 20.00
Roman Hyacinths.....	4.00 to 6.00	..... to 3.00	3.00 to 6.00
Stevia.....	2.00 to 4.00	..... to 3.00	2.00 to 6.00
Marguerites.....	..... to	6.00 to 8.00	..... to
Lily of the Valley.....	3.00 to 6.00	1.00 to 2.00	1.50 to 3.00
Snopdragon.....	6.00 to 8.00	6.00 to 8.00	..... to
Violets.....	8.00 to 12.00	6.00 to 8.00	8.00 to 15.00
Narcissus.....	.25 to .75	.40 to .75	.50 to 1.00
Calendula.....	3.00 to 4.00	3.00 to 4.00	6.00 to 8.00
Sweet Peas.....	2.00 to 4.00	2.00 to 5.00	4.00 to 8.00
Gardenias.....	1.00 to 3.00	.50 to 1.50	1.00 to 3.00
Adiantum.....	..... to 100.00	..... to	30.00 to 40.00
Smilax.....	1.00 to 1.50	.03 to 1.30	1.50 to 2.00
Asparagus Plumosus, & Spreng. (100 Bchs.).....	..... to 35.00	20.00 to 25.00	20.00 to 25.00
	35.00 to 50.00	35.00 to 100.00	60.00 to 75.00

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

Wholesale Growers of Cut Flowers

ROSES, CARNATIONS

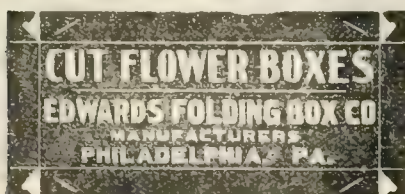
AND ALL OTHER SEASONABLE STOCK

Shipping orders have most careful attention always

WILLIAM F. KASTING Co.

Wholesale Florists

568-570 WASHINGTON STREET - BUFFALO, N. Y.



Flower Market Reports

Even though Lent is here **BOSTON** and the market supplied with an abundance of flowers business holds up well. Roses are exceptionally good and carnations look stronger and brighter. Lily of the valley is also improving while lilies still remain somewhat scarce. Violets move slowly but sweet peas find a ready market. Bulbous stock is still somewhat scarce but the whole situation is healthy and the increased supply is soon absorbed without any tendency of a break in the prevailing quotations.

The amount of stock **CHICAGO** coming into this market is on the increase. Favorable weather is doing its part in bringing out the roses and the counters are holding a tempting variety this week, which includes everything from the miniature rose to the fancy American Beauty. There is a good supply also of sweet peas and some very choice ones are to be had, as well as plenty of the more common varieties. Calendulas are apparently as popular as ever, the demand holding steady and quality good. Spring flowers are much in evidence, with daffodils, both local and from the South, Roman hyacinths and tulips making a tempting array. Some immense callas are being cut now and lilies are more plentiful also, the only flowers that do not seem to be catching up with demand being carnations.

Business continues **CINCINNATI** good. The supply of stock is somewhat short of actual requirements and everything available is selling well. Prices are good. Many more roses than are coming into the market could be used. Carnations clear readily. Lilies sell well, while callas and rubrums find a good market. Bulbous stock sells well and includes tulips, daffodils, hyacinths and freesia. Some excellent orchids may be had. Other offerings are snapdragons, forget-me-not, baby primrose, wallflower and calendula. Asparagus is somewhat scarce.

Increased shipments **NEW YORK** of roses and other varieties of flowers with a falling off in demand makes a very unsatisfactory condition. It is not alone the lower prices that prevail but the difficulty of moving the stock. The price of Beauties has eased up with only a moderate movement in them. The other staple varieties,

The Chicago Flower Growers Association

WHOLESALE GROWERS of CUT FLOWERS and PLANTS

L. D. Phone Randolph 631

182 N. Wabash Avenue, CHICAGO

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Mar. 10	CHICAGO Mar. 10	BUFFALO Mar. 10	PITTSBURG Mar. 10
Roses				
Am. Beauty, Special.....	60.00 to 75.00	60.00 to 90.00	60.00 to 75.00	60.00 to 75.00
" " Fancy and Extra.....	35.00 to 50.00	40.00 to 50.00	25.00 to 50.00	40.00 to 60.00
" " No. 1 and culls.....	20.00 to 25.00	15.00 to 25.00	5.00 to 20.00	8.00 to 20.00
Russell.....	15.00 to 30.00	10.00 to 35.00	10.00 to 20.00	12.00 to 30.00
Hadley.....	15.00 to 25.00	15.00 to 25.00	8.00 to 12.00	10.00 to 15.00
Euler, Mock.....	15.00 to 25.00	15.00 to 25.00	8.00 to 12.00	10.00 to 30.00
Arenberg, Hoosier Beauty.....	10.00 to 20.00	6.00 to 20.00	8.00 to 15.00	10.00 to 15.00
Ward, Hillingdon.....	8.00 to 15.00	4.00 to 15.00	4.00 to 6.00	6.00 to 15.00
Killarney, Key, Taft.....	8.00 to 15.00	4.00 to 15.00	6.00 to 15.00	6.00 to 15.00
Ophelia, Sunburst.....	8.00 to 25.00	8.00 to 20.00	6.00 to 15.00	8.00 to 25.00
Carnations				
Cattleyas.....	6.00 to 8.00	3.00 to 6.00	3.00 to 5.00	4.00 to 6.00
Lilies, Longiflorum.....	..... to 25.00	35.00 to 50.00	40.00 to 60.00	50.00 to 60.00
Lilies, Speciosum.....	..... to 20.00	18.00 to 20.00	15.00 to 20.00	15.00 to 20.00
Callas.....	..... to 15.00	..... to 20.00	15.00 to 25.00	12.00 to 20.00
Freesia.....	..... to 3.00	..... to 8.00	2.00 to 5.00	3.00 to 5.00
Roman Hyacinths.....	..... to 4.00	..... to 8.00	3.00 to 6.00	3.00 to 5.00
Stevia.....	..... to 1.00	..... to 2.00	1.00 to 2.00	1.00 to 3.00
Marguerites.....	..... to 8.00	..... to 8.00	8.00 to 10.00	..... to 6.00
Lily of the Valley.....	12.00 to 15.00	12.00 to 20.00	8.00 to 15.00	6.00 to 8.00
Snapdragon.....	1.00 to 2.00	.75 to 1.00	1.00 to 1.25	.75 to 1.00
Violets.....	5.00 to 6.00	3.00 to 8.00	3.00 to 4.00	4.00 to 5.00
Narcissus.....	4.00 to 6.00	3.00 to 6.00	3.00 to 6.00	2.00 to 4.00
Calendula.....	1.00 to 3.00	1.00 to 2.00	1.00 to 1.75	.75 to 2.00
Sweet Peas.....	..... to 50.00	..... to 75.00	15.00 to 20.00	..... to 20.00
Gardenias.....	1.00 to 1.50	1.50 to 2.00	1.00 to 2.00	1.50 to 2.00
Adiantum.....	..... to 25.00	..... to 25.00	..... to 20.00	..... to 25.00
Smilax.....	35.00 to 50.00	50.00 to 75.00	35.00 to 50.00	20.00 to 60.00
Asparagus Plu. & Spren. (100 Bhs.)				

Ophelia, Sunburst and the Killarneys, are not going well. Hadley and Columbia are doing best of all. The call for the lower grades of roses has fallen off. Carnations keep up in prices better than roses. Spring flowers, good tulips, Golden Spurs and Victorias have the preference with buyers. Sweet peas are much too plentiful for the demand, which is also true of calendulas and daisies. Sales are slow of longiflorum and calla lilies. Cattleyas unless of prime quality are little in favor. Prices of green stock, asparagus and smilax, the supply of which is not large, is steady. Taken as a whole, the market is unsteady.

Lent and the **PHILADELPHIA** high cost of living had their effect in the overturn last week and consequently on the prices. There was surplus enough for the boys on the streets to make a dollar, and they took good advantage of it. It is many a long day now since a poor school-teacher or other salaried employee could indulge in a posey of a week end. Sweet peas and carnations take a leading part in the week's offerings. Short roses have also come within the reach of the masses although there is little difference yet among the long stemmed aristocrats. Blue iris are in good supply and go readily at from ten to twenty. Snapdragon is showing up better. Some very fine long

stem pink is now coming in. Very choice delphinium, long, big and well finished, have just commenced. These are quickly picked up and do not get beyond the high priced stores.

The condition **ROCHESTER, N. Y.** of the wholesale market is very good. There is plenty of bulbous stock, carnations are of good quality and sell readily, and violets are in better demand. Callas are quite plentiful. The supply of roses equals the demand. There is plenty of miscellaneous stock for basket work, with a good demand for hyacinths and other bulbous stock in pots.

The pre-Lenten period **ST. LOUIS** ended last week with a lively demand. Roses and carnations hold firm as to price and quality. Violets and sweet peas are cleaning up daily at good prices. Bulbous stock has lessened up a little in supply and there is a good demand for greens of all kinds.

The market is **WASHINGTON** glutted with stock of all kinds, due to the warm weather and the coming of Lent. Sweet peas and violets glut the market and are turned over to the street vendors. Roses have dropped, with an oversupply of white ones. Carnations are plentiful and cheap, also bulbous stock, with daffodils alone holding firm as to price. Demand for callas is better.

H. E. FROMENT
Wholesale Commission Florist
Choice Cut Flowers
New Address, 143 West 28th St., NEW YORK
Telephones: 2200, 2201, Madison Square.

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Telephone 5335, Farragut.
Call and inspect the Best Establishment
in the Wholesale Flower District.

JOHN YOUNG & CO.
WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY
Consignments Solicited
Phone Farragut 4336

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—5535-5536 Madison Square

RIEDEL & MEYER, Inc.
Wholesale Commission
READY FOR BUSINESS
49 WEST 28th ST. NEW YORK.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
105 WEST 28th ST
CONSIGNMENTS SOLICITED
PHONE 608 / FARRAGUT NEW YORK
609

THE KERVAN CO
Fresh Cut Decorative Evergreens.
Highest Standard of Quality. Largest
Stock in America. Write for Illustrated
Catalog of Greens and Florists' Supplies
119 W. 28th St., - - NEW YORK

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
* First Class Market for all CUT FLOWERS *
Willoughby St. Brooklyn, N. Y.

M. C. FORD
121 West 28th St., NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone 3870 Farragut.



J. J. COAN, Inc. *Wholesale Florist*
116 West 28th Street, NEW YORK
Phones:
Farragut 5413 and 5891 **Everything in Cut Flowers**

Business Here Is Always Good
I NEED MORE FLOWERS. Send your stock here and get
Top Market Prices
HERMAN WEISS, 130 West 28th Street
New York
AGENT FOR CABILLO'S CATTLEYAS

HENRY M. ROBINSON CO. OF NEW YORK
WHOLESALE FLORISTS
55-57 West 26th Street
Telephones, 13-5510 Madison Square
Consignments Solicited
MAURICE L. GLASS, Treasurer

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Part of Week ending Mar. 8 1918		First Part of Week beginning Mar. 10 1918	
American Beauty, Special	40.00	to 75.00	40.00	to 75.00
" " Fancy and Extra	20.00	to 40.00	20.00	to 35.00
" " No. 1 and culls	5.00	to 15.00	3.00	to 15.00
Russell	5.00	to 35.00	4.00	to 30.00
Hadley	5.00	to 60.00	4.00	to 50.00
Euler, Mock, Key	3.00	to 25.00	3.00	to 20.00
Aranberg, Hoosier Beauty	3.00	to 12.00	2.00	to 10.00
Ward, Hillingdon	3.00	to 12.00	2.00	to 10.00
Killarney, Taft	3.00	to 8.00	2.00	to 8.00
Ophelia, Sunburst	3.00	to 12.00	2.00	to 12.00
Carnations	2.00	to 5.00	2.00	to 5.00

WE WANT MORE SHIPPERS

We have a numerous clientele of New York City buyers and the demand exceeds our supply. This is especially true of Roses. We have every facility and abundant means and best returns are assured for stock consigned to us.

Address Your Shipments to

UNITED CUT FLOWER CO. Inc.
111 W. 28th St., NEW YORK
D. J. Pappas, Pres.

REED & KELLER
122 West 26th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Boston Floral Supply Co.
347-357 Cambridge St., Boston
SHOW ROOMS, 15 Otis Street and
96 Arch Street
Headquarters for
CYCAS, BASKETS, WIRE DESIGNS
and WAX FLOWERS

QUALITY QUANTITY
CHARLES MILLANG
Wholesale Florist
55-57 West 26th St., NEW YORK
ATTENTION VARIETY

ROBERT DYSART
CERTIFIED PUBLIC ACCOUNTANT
Simple methods of correct accounting
especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
40 STATE STREET . . . BOSTON
Telephone Main 54

When writing Advertisers kindly mention Horticulture

Local and General News

CHICAGO.

The American Bulb Co. received a carload of lily bulbs, new stock, from Japan on March 10th. This is the first importation received since the embargo was passed.

D. D. P. Roy has the sympathy of the trade in the continued illness of his family. This time it is typhoid fever and Mrs. Roy is again the sufferer. She is in the Alice Home Hospital in Lake Forest, Ill.

Herman Schiller, who spent nine months in the navy, is getting back into the harness again. He is looking well and while apparently enjoying his work for Uncle Sam, he is glad to be back in the north side store again.

No one would think to look at Harry Manheim that he had spent 32 years in the florists' business, yet such is the case. Just eight years ago he entered the employ of Hoerber Bros. as manager of the city store, and following the sale by that firm Mr. Manheim returned to his former position with J. A. Budlong Co. where he will be glad to meet all of his old customers.

Announcement cards are telling customers that the florist business conducted by the late C. Frauenfelder at 3341-5 West Madison street will be continued by Mrs. C. Frauenfelder and Miss Edna. During her father's life time Miss Edna was his right hand assistant, and her ability is well known, so the conduct of the business will be in safe hands. Mrs. Frauenfelder's interest will be largely financial, but working together, the outlook for the future of the business is remarkably good.

The many friends of O. A. and L. A. Tonner are glad to know that Miss Olga is again able to visit their wholesale store, where she was seen March 10th for the first time in many weeks.

Rheumatism has kept Miss Tonner confined to her home and it is with difficulty that she walks now, but her devotion to business and the success the sisters have achieved make it very trying to be shut in. The store is now having more space devoted to the pecan interests and a glass case shows the different kinds of pecan nuts grown in their grove at Baconton, Ga., the celebrated Schley variety being most prominent. Miss L. A. Ton-

J. K. ALLEN

"A LEADER IN THE WHOLESALE COMMISSION TRADE FOR OVER THIRTY YEARS"
ROSES! I WANT ROSES!

Have a demand for more than I can supply. Rose Growers Call or Write.

118 West 28th St.

NEW YORK

TELEPHONES
Farragut 167 and 3043

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Part of Week ending Mar. 8 1918			First Part of Week beginning Mar. 10 1918		
Cattleyas.....	20.00	to	50.00	20.00	to	50.00
Lilies, Longiflorum.....	10.00	to	15.00	10.00	to	16.00
Lilies, Speciosum.....	.....	to	.....	.....	to	.....
Callas.....	10.00	to	16.00	10.00	to	15.00
Freesia.....	1.00	to	3.00	1.00	to	2.00
Roman Hyacinths.....	1.00	to	3.00	1.00	to	2.00
Stevia.....	.....	to	.....	.....	to	.....
Marguerites.....	1.00	to	2.00	1.00	to	2.00
Lily of the Valley.....	2.00	to	4.00	2.00	to	4.00
Snappedragon.....	5.00	to	16.00	8.00	to	25.00
Violets.....	.30	to	.60	.35	to	.50
Narcissus.....	3.00	to	5.00	5.00	to	5.00
Calendula.....	15.00	to	50.00	16.00	to	50.00
Sweet Peas.....	1.00	to	3.00	1.00	to	3.00
Gardenias.....	20.00	to	50.00	20.00	to	50.00
Adiantum.....	.....	to	1.00	.....	to	1.00
Smilax.....	12.00	to	20.00	12.00	to	20.00
Asparagus Plumosus, & Spreng (100 bunches).....	15.00	to	35.00	15.00	to	35.00

ner says already this spring pecan land is beginning to attract customers.

It is noted with pleasure that in the spring openings of some of the big department stores this week, natural plants and flowers are again used. Hundreds of boxes from 18 to 24 inches in length contain cinerarias in bloom, while others have hyacinths and other spring flowers with ferns. Many large Boston ferns are also used in decorating the store. This is a return to the customs of pre-war days when the decorations called for a very large number of plants, etc., last year's openings being very simple and floral decorations, excepting prepared foliage in limited quantity, being practically eliminated.

ST. LOUIS

The Florists' masquerade party was a great success. Everyone had a good time.

The St. Louis Florist Club met March 13th at Jules Bourdet's Greenhouses. Publicity and other matters were discussed. In connection, there was a carnation show, also miscellaneous flowers, and all outside growers were invited to contribute.

Publicity was discussed at the meeting of the Growers at 11 Mile House, Wednesday evening, March 5th, and the Milwaukee system adopted, the wholesalers at every settlement with the growers deducting 1 per cent. for publicity. Growers' insurance was also debated and a lengthy meeting was held.

ROCHESTER, N. Y.

Hart & Vick are doing a fine business in spring seeds.

Most of the florists will experience a busy week as the spring opening of many of the department stores will call for greens of all kinds.

The Country Farm Bureau Association in co-operation with the New York State College of Agriculture, New York Central R. R. and Lehigh Valley R. R., is conducting a "better seeds special" to work through Livingston County. The work to be taken up on these trains is demonstrations, exhibitions and lectures.

WASHINGTON, D. C.

John Sharper, Oxon Hill, Md., has just completed a greenhouse 35 x 150, which will be planted to sweet peas and carnations.

George Gouldman, just discharged from the Marine Corps, has returned to the Louise Flower Shop. Miss Louise Dougherty, the proprietor, has been quite ill with influenza.

Corp. Norman Padgett, formerly with Gude Bros., is at Hoboken, N. J., awaiting demobilization. He was badly gassed at Chateau-Thierry. Robert Baggot, another of Gude Bros. men, has just been released from the army.

NEW FLOWER STORES.

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HOW TO CONTROL THE ONION THRIPS

The onion thrips is an insect so small that it is almost invisible to the unaided eye, but it is prolific, and the most serious menace to the onion-growing industry of this country. It causes an annual loss to this crop alone estimated by specialists of the U. S. Department of Agriculture to be at least \$2,250,000. Though the insect has a particular liking for onions, it preys upon other garden and truck crops, such as cabbage, cauliflower, cucumbers and melons, and also has a ravenous appetite for greenhouse and many ornamental plants, particularly roses. To aid growers in identifying this insect and preventing the losses for which it is responsible, Farmers' Bulletin 1007, "Control of Onion Thrips," has recently been published by the U. S. Department of Agriculture.

The first indication that an onion field has been attacked by thrips, says the bulletin, is shown by the leaves, which become whitened. In advanced attacks the leaves are curled, crinkled and twisted, and finally die down permanently. To control this pest, begin spraying with nicotine sulphate solution as soon as there is any evidence of the insect. If spraying is delayed until hundreds of young thrips are present the crop will be seriously injured. The spray material is made by the following formula: $\frac{3}{4}$ pint of nicotine sulphate (40 per cent.), 4 pounds of dissolved soap, and 50 gallons of water. Spraying should be done thoroughly and applied as a fine mist.

It is not advisable to plant other crops, such as early cabbage and cauliflower, upon which the thrips feed, near the onion fields. After onions, cabbage and related crops are harvested, the field should be cleaned up to destroy any breeding places of the insect. They will continue to thrive on any portion of these plants or weeds that might remain in the field. It is a good practice to plow as deeply as possible and harrow the ground after harvest. Much of the injury can

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be avoided by planting as early as possible and by using quick-acting fertilizers after the onions are well set or the bulbs have begun to form. Onion fields should be watched constantly and the plants should be kept growing thriftily, since once the plants become checked in their growth from any cause the thrips will multiply more rapidly than ever and it will be a hard fight to save the crop.

NEWS NOTES.

Ridgefield, Ct.—The greenhouses and business of the Ridgefield Florist have been purchased by Wm. Pinchbeck.

Bangor, Me.—G. F. Seavey & Son have purchased the greenhouses and business of C. F. Cavanaugh, 26 Lane street, and will make additions and alterations thereto.

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HASSALL & CO., Orchid Growers and Raisers, Southgate, London, England. Cattleyas and Laelio-Cattleyas our specialty. One trial order solicited.

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Buffalo, N. Y.—The Queen City Seed & Nursery Co. opened its new sales-room and office at 33 to 35 East Chippewa street, March 1st, with a full line of vegetable and garden seeds, bulbs, fertilizers and garden implements.

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The oldest and best established journal for nurserymen. Circulation among the trade only. Published monthly. Subscription price \$1.50 per year. Foreign subscriptions, \$2.00 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

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Washington — Theodore Wirth, Minneapolis, Minn.; I. Rosnosky, Chicago, Ill.; Otto Schoeps, with Palmer's, Buffalo, N. Y.; R. E. Faust, S. S. Penneck Co., Philadelphia; W. E. McKissock, Baltimore, Md.; Stevenson Bros., Towson, Md.; Wm. Lehr, Brooklyn, Md.

Chicago — Martin Reukauf, of H. Bayersdorfer & Co., Philadelphia; W. J. Miller, Pontiac, Ill.; Edw. McCallum and James Higgins, Pittsburgh, Pa.; R. Holt, of the Kirkwood Floral Co., Des Moines, Ill.; W. K. Anderson, of Lion & Anderson, Belvidere, Ill.; James Cole, of Cole Bros., Peoria, Ill.

NEWS NOTES.

Rome, N. Y. — Carl Rangdahl, of Nahant, Mass., has purchased a range of 25,000 feet of glass.

Fairmount, W. Va. — The H. Glenn Fleming Greenhouses have been purchased by Hauge's Flower and Plant House.

Terre Haute, Ind. — The Terre Haute Rose & Carnation Co. have sold their range of 50,000 sq. ft. of glass to H. B. and H. E. Henley, of Hartford City. The business will be conducted under the name of Henley Bros.

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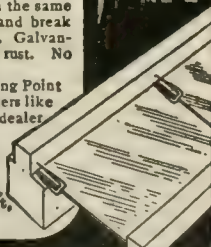
New Britain, Ct. — Volz Floral Co., rebuilding.

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Vol. XXIX

MARCH 22, 1919

No. 12

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LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....288	Childs, John.....268	Grakelow, Chas.....281	Lemon Oil Co.....287	Randall Flower Shop.....281	Smyth, Wm. J.....281
Allen, J. K.....284	Lewis.....268	Id.....281	Liggit, C. U.....267	Stearns Lumber Co., A. T.....268	Stearns Lumber Co., G. E. M.....280
American Bulb Co.....266	Clarke, D. Sons.....280	Grey & Co., T. J.....266	MacGregor, J.....288	Reed & Keller.....284	Stump, G. E. M.....280
American Forestry Co.....277	Coan, J. J.....284	Gude Bros. Co.....280	McIntosh Co.....277	Reid, Edw.....282	Stump & Walter.....266
Anderson, S. A.....281	Cooke, Geo. H.....280	Haendler, M. P.....277	Marshall, W. E. & Co.....266	Reuter, L. J. Co.....268	
Aphine Mfg. Co.....287	Conard & Jones.....277	Hart, Geo. B.....282	McKenzie, John.....281	Rice & Co., Jerome B.....266	Thorburn, J. M. & Co.....266
	Cowee, W. J.....282	Heistad, H.....288	Michell, H. F. Co.....279	Robinson, Henry M. Co.....284	Totty, Chas. H.....268
	Craig Co., Robt.....267	Henderson & Co., A.....282	Michigan Cut Flower Ex.....282	Robinson, H. M. & Co.....282	Tracy, B. Hammond.....267
Barrows, H. H.....268	Danker.....280	Hentz & Nash.....286	Millang, Chas.....284	Roehrs, J. Co.....268	
Bay State Nursery.....268	Dards.....280	Hess & Swoboda.....281	Muller-Sealey Co.....267	Roland, Thomas.....281	United Cut Flower Co.....284
Bobbink & Atkins.....267	Dunlop, John H.....281	Hews & Co., A. H.....286	Murray, Samuel.....280	Rosery, The.....280	
Boddington Co., Inc., A. T.....278	Dwelle-Kaiser Co.....287	Hill Co., E. G.....282	National Nurseryman.....286	Schwake, Chas. Co.....267	Vincent, R., Jr., & Sons Co.....265
Bolzano & Son.....266	Dysart, R.....284	Hill, D. Nursery Co.....277	Nicotine Mfg. Co.....288	Sekenger, Adam.....280	Wants, For Sale, etc.....286
Boston Floral Supply Co.....284	Edwards Folding Box Co.....282	Hotel Cumberland.....276	Niessen, Leo Co.....282	Sheridan, W. F.....284	Warburton.....281
Breck, J. & Sons.....266	Elm City Nursery series.....268	Howard, W. D.....276	Old Town Nursery series.....277	Siebrecht, Geo. C.....281	Weber, F. C.....281
Breck-Robinson Co.....267	Farquhar, R. & J. Co.....266	Irwin, R. J.....266	Palmer, W. J. & Son.....281	Siggers & Siggers.....287	Wilson.....280
Breitmeyers, J. Sons.....280	Fengar, E. W.....267	Johnston Bros.....280	Park Floral Co.....281	Skidelsky, S. S. & Co.....266	Wood Bros.....281
Budlong, J. A.....282	Ford, M. C.....284	Kasting, W. F. Co.....282	Parshelsky Bros.....288	Smith, Elmer D. & Co.....277	Woodmont Nursery series.....268
Bunyard, A. T.....280	Ford, W. P.....284	Kelway & Son.....266	Penn the Florist.....280	Smith, W. & T. Nursery Co.....277	Woodruff, S. D. & Sons.....266
Burnett Bros.....266	Froment, H. E.....284	Kervan Co.....284	Penneock, S. S. Co.....265	Smith, The Florist.....281	Young, A. L.....284
Burpee, W. A. & Co.....268	Galvin, Thos. F.....281	Knoble Bros.....281	Pierion, A. N.....265	Smith & Fellers Co.....281	Young, John.....284
	Gasser Co., J. M.....281	Kroeschell Bros.....288	Pierion, F. R.....265		Zech & Mann.....282
Carter's Tested Seeds, Inc.....266	Graham & Son, A.....281	Kuebler, W. H.....284	Pulverized Manure Co.....287		
Chicago Flower Growers Asso.....283		Kottmiller.....280			

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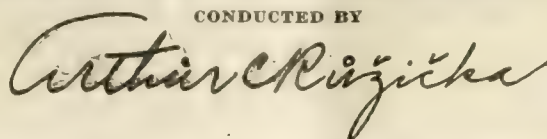
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ROSE GROWING UNDER GLASS

CONDUCTED BY



Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Feeding

To get a real good crop for Easter, the plants will take quite some feed as soon as the shoots are showing which should be about now. Liquid manure will be the ideal feed from now on, and of course if no bone or tankage had been used during the fall and winter, it will be well to use this quite liberally, especially on plants that are to be carried over another year. Before applying any feed in any way see that the plants are always wet enough for they will not stand feeding when they are dry. The roots will take it up too rapidly, and the result will be that it will get into the system of the plants undigested, stop up the circulation of sap, and the plants will die as a rule, or else get very sick and take a long time for them to recover, if ever. Use a good cow manure, not too fresh, mix well with water, and if possible turn steam into it to cook it up a bit. A bag of fine bone can be dumped in too, making it all the richer. Have it well strained to run through the pipes easily, without any danger of stopping up the mains and laterals. Water the plants first with clear water, and then apply enough liquid to saturate the soil, at the same time not have it run through too much. This will make the liquid go a good way. When applying bone and other fertilizers, do not apply a heavy dose all at once, rather give the plants a little at a time and apply it, say every week on a certain day so there will be no omission. By careful cutting, the plants can be kept so that they will be able to take it at all times without any danger of overfeeding. Where no facilities for applying liquid manure are installed, sheep manure, chicken manure tankage, acid phosphate can be used to take its place, also a light dressing of cow manure every so often as the plants take it up can be applied.

Cutting

With the coming of warmer weather, it will be necessary to get the stuff cut a little tighter, especially on places where there is no icebox to harden the stuff before it is shipped, and to keep it cool while it is in water. Change all the water in the jars every day. It will pay in the long run, and only takes a few minutes after packing to dump all the water, and let the jars air for a while. With plenty of jars, wash half of them out well with hot water and soap, and then set them out in the

sun for two or three days. It will sweeten them up wonderfully, and the water will keep much cleaner, and that means that the roses will keep much longer if they have fresh sweet water, rather than stagnant water. At no time should the jars be unclean enough to drink out of. When cutting, where there is a heavy crop, some of the roses can be cut down to one eye, thus giving the cut bloom a little more stem and perhaps putting it into the next grade. Keep the heads together well when cutting so that they will not bruise. Every mark will show when the ultimate consumer gets the roses, and that goes against them every time. Retailers, too, will come for someone's stock, often way out of their way once they know it is all that can be expected, and the result is that some growers' stock is always sold before it reaches the market, while other stuff has to go begging. This of course has not been the case the past winter, but with more and more stock coming in all the time, roses will have more competition than they have had. Get them to the home in good shape and benefit the whole rose growing business.

The Young Stock

It is well to go over all the young stock to see just what is needed in the different varieties. Later, perhaps, young stock will be very scarce, and the result will be that growers may have to plan what they can get, which is not always the most profitable thing to do. Also see that all the young stock that is being grown at home is not suffering in any way, and is being cared for properly. Do not let any plants get pot bound too severely, and if in a pinch it is not possible to repot when the time comes, give the potted plants a little bonemeal. This will keep them going for about two weeks, when the process can be repeated, but then they must be shifted. As mentioned before, see that they are wet enough when the bonemeal is applied for reasons stated. In repotting, see that the plants are well cleaned off, and all small plants are set to the front of the bench, and all the taller and stronger plants to the rear. This will give all the plants an equal show, and they will even up better. Discard all weak, and poor plants as it is money lost to nurse these along. Use clean pots, and fresh soil so the plants will have every show to keep growing right on without any stop.

PRUNING CLEMATISES

Though this is often needful work, it is very apt to be overdone. The spring-flowering montanas should be left severely alone, save where much overgrown. Clematises of the patens and lanuginosa class require no more than a mere tipping back of weakly or dead wood. The Jackmanii and those of the Flammula and viticella sections may be cut right back to a few eyes from where last year's wood started.

This will increase the number of flower-bearing shoots and induce the plants to bloom low down as well as on top. But while hard pruning undoubtedly tends to heavy flowering, it is questionable whether a great mass of bloom is really so effective as a more open distribution of color. Instead of removing the parts cut off, it is a good plan to leave these as supports for the new growth. A more natural and pleasing effect will in this

way be obtained. We always prune the above kinds in March, even though new growth may have by that time started.—*The Garden.*

Lincoln said: "When an occasion is piled high with difficulty, we must rise to the occasion." There are war tasks to be concluded, readjustments to be effected, individual and national prosperity to be achieved. Buy Thrift Stamps and W. S. S.

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CONTENTS

Page

ROSE GROWING UNDER GLASS—Feeding—Cutting—

The Young Stock—*Arthur C. Ruzicka*..... 269

SOCIETY OF AMERICAN FLORISTS:

Meeting of the Executive Board—National Publicity Campaign 271 273

CLUBS AND SOCIETIES:

Illinois State Florists' Association—Wm. J. Keimel, portrait—St. Louis Florist Club—Nassau County Horticultural Society—New York Florists' Club—Rochester Florists' Association—Westchester and Fairfield Horticultural Society—Horticultural Society of New York—Ladies' Society of American Florists..... 274-275

THE ONION FLY—*John S. Doig*..... 275

AMERICAN TILIAS 275

IN MEMORIAM—*C. S. Harrison*..... 278

SEED TRADE—Cabbage Seed Supply Low..... 279

OF INTEREST TO RETAIL FLORISTS:

Flowers by Telegraph..... 280

New Flower Stores..... 281

FLOWER MARKET REPORTS:

Boston, Chicago, Cincinnati, Philadelphia, Rochester 283

LOCAL AND GENERAL NEWS:

Chicago, St. Louis, Rochester, Cincinnati..... 285

MISCELLANEOUS:

Pruning Clematises 269

A Little Known Hedge Plant..... 273

Delphiniums: Raising Plants From Seed..... 277

How to Grow Rust-Resistant Asparagus..... 279

Visitors' Register..... 281

A Finely Developed Estate..... 286

Greenhouses Building or Contemplated..... 287

New Corporations 287

News Notes 287

door garden. The call of the garden is loudest in the spring when we look eagerly for the first blossoms in the open air and it is here that our interests in the hardy plants, shrubs, vines and trees begins or gains new inspiration. And after all is not the outdoor garden the most interesting field of garden work and also the most enduring in the perennial satisfaction which it affords.

The coal situation

Certain coal dealers are giving us to understand that present prices of coal will be the minimum prices for the year, and that after April monthly advance in prices will be made. HORTICULTURE does not believe that coal-brokers will be able to manipulate prices in this way. With many mills throughout the country closed and many more about to close or when shorter hours and with iron, steel, copper, wool and nearly all other raw materials showing lower prices and continued lessening demand, it is hard to see how coal should be the sole exception. HORTICULTURE believes that coal cannot be maneuvered to higher prices than those of today, and that from now onward prices will gradually come down.

E. H. Wilson home again

After an absence of over two years in Korea, Japan and its Southern islands including Formosa, Mr. E. H. Wilson, the famous collector for the Arnold Arboretum, arrived in Boston last Sunday. In Korea Mr. Wilson found many new plants all of which are expected to prove hardy here. His exploration of Formosa is especially interesting as he is the first white man to have reached its highest altitude, Mount Morrison which rises to about 16,600 feet above the sea. The slopes of this mountain abound in pines, firs and junipers, most of which are new to us. Formosa, too, has the most wonderful sea cliffs in the world rising to a height of over 6,000 feet. Mr. Wilson has traversed them. We shall await with eagerness the account of his exploration of this remarkable and little known island.

South American trade

Before the War, German plant growers did a large export business to South America. They even went the length of having greenhouses constructed on the decks of several steamers plying between Hamburg and South American ports, in which the plants, chiefly palms were closely packed. A competent gardener accompanied each shipment and gave the plants necessary care in temperature, watering and ventilation during the voyage. Heat was provided by steam-pipes fed from the ships boilers. As a result of this care plants reached their destination in excellent condition and this trade was flourishing when the war stopped it. It cannot be speedily resumed, and it does seem that the opportunities offered to growers of the United States now that we are to enjoy better steamship communication and closer business relations with the republics of South America, should not be ignored by our growers.

Outdoor gardening

It is only natural to assume that the interest in gardening awakened throughout the country among amateurs, and which led to the formation of so many garden clubs last year should find expression in the out-

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

MEETING OF THE EXECUTIVE BOARD.

The mid-winter meeting of the executive board of the society was held at the Hotel Statler, Detroit, Mich., on Friday and Saturday, January 31st and February 1st, 1919, President J. F. Ammann presiding at all sessions.

President Ammann opened the session with a short address after which the credentials of the representatives from the different clubs and societies were filed and accepted. In response to roll call, the following were found to be in attendance:

J. F. Ammann, president, Edwardsville, Ills.; E. A. Fethers, vice-president, Detroit, Mich.; John Young, secretary, New York City, N. Y.; J. J. Hess, treasurer, Omaha, Neb.; Wm. F. Gude, Washington representative, Washington, D. C.; and the following directors, Joseph Manda, West Orange, N. J.; Chas. E. Critchell, Cincinnati, O.; Joseph H. Hill, Richmond, Ind.; C. C. Pollworth, Milwaukee, Wis.; C. H. Totty, past president, Madison, N. J.; Philip Breitmeyer, F. T. D., Detroit, Mich.; Chas. S. Strout, president American Carnation Society, Biddeford, Me.; Philip F. Kessler, president New York Florists' Club, New York City; Edmund A. Harvey, president The Florists' Club of Philadelphia, Philadelphia, Pa.; Allie J. Zech, Chicago Florists' Club, Chicago, Ill.; Benjamin Hammond, president American Rose Society, Beacon, N. Y.; August Hummert, president St. Louis Florists' Club, St. Louis, Mo.; Chas. J. Graham, president Cleveland Florists' Club, Cleveland, O.; Geo. Asmus, chairman National Flower Show Committee, Chicago, Ill.; Henry Penn, chairman Publicity Committee, Boston, Mass.

Also the following visitors: H. G. Dilleuth, Toronto, Ont.; Carl P. Baum, Knoxville, Tenn.; Walter Taepke, Detroit, Mich.; Chas. H. Grakelow, Philadelphia, Pa.; W. J. Palmer, Buffalo, N. Y.; Major P. F. O'Keefe, Boston, Mass.; W. L. Rock, Kansas City, Mo.; Irwin Bertermann, Indianapolis, Ind.; R. C. Kerr, Houston, Texas; Albert Pochelon, secretary F. T. D., Detroit, Mich.; W. R. Nicholson, Framingham, Mass.; Allan Peirce, Waltham, Mass.; Geo. B. Arnold, Woburn, Mass.; Fred. Lautenschlager, Chicago, Ill.; S. S. Pennock, Philadelphia, Pa.; J. F. Sullivan, Detroit, Mich.; E. G. Hill, president Florists' Hall Association, Richmond, Ind.

The secretary read his financial report which was accompanied by a certificate of audit. On motion the report was referred to a committee of three for official audit. President Ammann

appointed the following as committee, Benjamin Hammond, C. C. Pollworth and Jos. A. Manda.

Treasurer J. J. Hess then presented his report. In making his presentation, he pointed out that expenses had exceeded the general fund to the extent of \$4,875 and asked that something be done to increase the revenue of the society, in so far as this fund was concerned. The expense of the secretary's office had largely increased on account of the great amount of work now connected with it. The deficiency was fully discussed, the discussion bringing out the fact that the National Flower Show which was abandoned in the spring of 1919, was responsible for an expense of \$2,100, and other expense had also been entailed which was not likely to occur again.

The treasurer produced certificates from the banks verifying the bank balances. The report was, on motion, referred to the audit committee.

The work of the publicity committees was then taken up, reports received and considered, and the situation fully discussed, as reported recently in the trade papers.

Second Session, Friday Afternoon, January 31, 1919

Promptly after luncheon, President Ammann called the board to order for the second session. The Publicity Campaign was further discussed. The outcome was the carriage of a motion by Mr. Hess that the board recommend the adoption of an equitable plan on lines such as practiced in Milwaukee, and described by Mr. Pollworth, the same to be devised by the Publicity Finance Committee with a view to its operation another year.

Reports of Credits and Collections Bureau

R. C. Kerr, chairman of the committee on credits and Collections Bureau, made a verbal report covering the work of the committee since the St. Louis Convention. The report was lengthy and showed that considerable progress had been made toward the inauguration of a service which, it was hoped, might ultimately meet the requirements of the trade. A resolution was passed endorsing the work of the committee and recommending that

they continue it, with full power to act.

Secretary Young presented and read a report, as superintendent of the St. Louis Trade Exhibition which was duly accepted and ordered to be audited and filed.

Accommodations for the Detroit Convention

Vice-President E. A. Fethers reported the selection of a hall for the housing of the convention next August. The Arcadia Dance Auditorium, on Woodward avenue, Detroit, within fifteen minutes walk of the Hotel Statler, he believed would furnish ample accommodations. He stated terms and other particulars in regard to its rental for the purpose. The board arranged to make a visit of inspection next day.

Mr. Fethers reported as to the situation in regard to the 1919 Convention Garden, explaining the difficulties met with concerning its establishment, and the lack of interest evident on the part of prospective exhibitors. Mr. Breitmeyer also discussed the situation, and recommended that the idea of a Convention Garden be abandoned, at least for 1919. It being reported that the florist interests of Cleveland, where the 1920 convention is to be held, were also in favor of entire abandonment, the Board, after full discussion, on motion of Mr. Asmus decided to recommend that at the next convention the constitution be so amended as to eliminate the Convention Garden Committee.

The matter of the preparation of the Convention program was discussed and the board decided to leave it in the hands of the secretary and the local committee. If it was thought desirable to provide speakers, the secretary and committee were empowered to meet expenses, which should not exceed \$200.

The Auditing Committees presented their report, which was, on motion, accepted.

Chairman W. F. Gude of the Committee on Tariff Legislation then made a report which dealt largely with the work of the committee in reference to the action of the Federal Horticultural Board in establishing a quarantine against importations of

plants, etc. He presented the brief prepared by the committee for signature by the directors, and the same was completed and put in readiness for official presentation.

Mr. Gude further recommended that J. D. Eisele of Dreer's, Riverton, N. J., and F. R. Pierson, Tarrytown, N. Y., be added to the Committee on Tariff and Legislation, and, on motion of Mr. Manda, the president was empowered to make the appointments.

Secretary Young asked for a ruling by the Board as to the proper interpretation of the new by-law covering plant registration, instancing a case where descriptions of some Delphiniums had been sent in for registration, but the same did not appear to cover any varietal differences such as to make the plants separate and distinct from other varieties. The board discussed the matter at some length, and expressed the opinion that the intent of the by-law was quite plain, and anyone who had a plant which was rejected for registration, and believed that the by-law did not cover the case, could come before a committee of judges to be appointed by the society to examine and report in the matter.

After a general discussion of other matters, which included National Flower Show prospects, the society's new journal and the conveniences of the society's office in New York, the board adjourned to the Detroit Athletic Club, where the members were guests of Mr. Breitmeyer at a very enjoyable dinner, fendered by him. There were also present as guests of Mr. Breitmeyer the directors and executive officers of the Florists' Telegraph Delivery Association.

Third Session, Friday Evening January 31st.

After the dinner, the Board went into session and again opened the proceedings with the Publicity Campaign as a topic for further discussion, Albert Pochelon, secretary of the Florists' Telegraph Delivery Association, and other officials of that organization, taking part. Major O'Keefe, by request, spoke at some length of the plans that had been mapped out for the 1919 campaign, describing the advertisements it was proposed to insert in a list of national magazines, the illustrations to appear in connection with them, and the new features to be introduced.

The Major also referred to the paragraph which it was proposed to insert in the magazine advertisements: "When you see the sign, 'Say It With Flowers', displayed by your florist, it shows that he is a member of the

Society of American Florists. Give him your patronage because he is aiding in the praiseworthy national work of making flowers more loved and used." He did not care to use this paragraph without the fullest authority, and therefore requested that the Board would consider the advisability of using this wording, and rule accordingly. A very long discussion ensued, and finally, upon motion, the text was approved and its use authorized.

A resolution was passed that a recommendation of the Audit Committees that the funds of the National Flower Show be kept separate be concurred in by the Board.

Another resolution was passed that the Committee in charge of the Convention Program be recommended to endeavor to secure a speaker from the Agricultural Department, Bureau of Plant Industry, to define the work of the Bureau along horticultural lines.

Sports at the Detroit Convention

Vice-President Feters spoke of a movement to revive the custom of holding sports at the conventions, and detailed different features which had been discussed locally. The Board approving of the movement, the entire matter was left in the hands of the local committee.

Fourth Session—Saturday Morning, February 1st.

At 9 a. m. the members of the Board in a body inspected the Arcadia Auditorium, returning afterwards to the Hotel Statler where a business session opened at 10.30. E. G. Hill, Richmond, Ind., and George W. Hess, Washington, D. C., took seats at this session.

President Ammann appointed Messrs. Graham, Penn and Kessler as a Committee on Final Resolutions.

Mr. Gude read resolutions passed by different trade bodies in regard to the plant embargo soon to go into operation, and considerable correspondence in the matter. Some discussion ensued, during which Vice-President Feters announced that he had received a message from the Federation of Women's Clubs to the effect that that body would like to co-operate with the Society, as they were much interested in the opposition to the embargo, and would like an opportunity to interview senators and congressmen in Washington. On motion of Mr. Asmus, the President was directed to appoint a committee of two local men with Mr. Gude, to confer with these ladies and help them in their approaches to the legislators.

Messrs. Feters, Breitmeyer and Gude

were appointed such committee. On the request of Mr. Gude, the Board on motion of E. G. Hill, went on record as favoring national appropriations to the U. S. Dept. of Agriculture in the interests of horticulture and floriculture.

The Board discussed at some length arrangements in regard to the housing of the 1919 Convention and Trade Exhibition, and terms for leasing the Arcadia Auditorium. On motion of Mr. Totty, the local committee was given power to execute a lease on the terms offered. The rate for space in the Trade Exhibition was fixed at 40c. per sq. ft. as before.

President Ammann called upon each member of the Board representing affiliated organizations for suggestions as to the Society's work, especially any which might interest the organizations represented. This led to a lengthy and most earnest discussion as to advantages to the Society which might come through an extension of the affiliation idea. The trend of the discussion was in the direction of encouragement of effort to promote State organizations of florists, all of which by complying with provisions laid down, should have representation upon the Society's Board, the expenses of all delegates to be defrayed by the organizations represented. As a result of the discussion it was, on motion, decided that a committee be appointed to prepare recommendations in the matter to the Society at its next Convention, full consideration being given to the number of florists in each State and the number of representations probable, also to the necessity for each organization, to bear the expenses of its representative.

Mr. Penn brought up the matter of a recommendation to the Society that it appropriate again this year the sum of \$5,000 to the Publicity Campaign Fund, and moved that the Board make such a recommendation. The motion was duly seconded, but a discussion was raised as to the financial condition of the Society in respect to such an appropriation. The motion was eventually changed to read that it was the Board's recommendation that the sum of \$5,000 be made to the Publicity Fund, to be used if needed during the year's campaign.

Adjournment was then made for lunch.

Fifth Session—Saturday Afternoon, February 1st.

The session being opened by the President, the first business taken up was that of appropriations. The ap-

appropriations of the previous year being read by the President and meeting the views of the Board on motion of Mr. Gude the appropriations for 1919 were made the same. In the same connection, the matter of preparing the Society's new journal for publication came up for discussion, as well as the care of the Secretary's office, while he was traveling in the interests of the Society, and, on motion, of Mr. Asmus, the sum of \$50 per month was appropriated for services of an assistant.

Secretary Young asked for the views of the Board as to the desirability of printing a membership list, in view of the fact that it had been customary to do so, and incorporate it in the volume of Proceedings now abandoned, to print it separately would entail quite an expense. After discussion, the Board expressed the opinion that the printed list of members could be dispensed with.

The Board, feeling that the Treasurer's salary was inadequate for the work he was now called upon to perform, on motion of Mr. Breitmeyer voted to increase from \$200 to \$300 per year.

The President announced the following as the Committee on Affiliations: Joseph H. Hill, C. E. Critchell, and C. C. Pollworth.

Mr. W. F. Gude moved in view of the great expense the Society was now under in the prosecution of its work, that the Board recommend an amendment to the Constitution raising the dues to five dollars per year, and life memberships to fifty dollars, first year's dues of annual members to cover initiation as at present. The motion was duly seconded and carried.

The subject of the abandonment of the Convention Garden again coming up, the Board expressed itself that the recommendation covering that action should carry with it a recommendation that selection of a convention city be only made one year in advance as formerly.

The Treasurer reported a mortgage loan of \$6,500 in favor of the Society maturing shortly, and requested instructions in the matter. On motion, the loan was ordered to be investigated, and if found to be gilt-edged left unrecalled, but if recalled reinvestment was left to the Treasurer and President.

Final Resolutions

After the discussion of a few other matters of general and passing interest not requiring action, the Committee on Final Resolutions presented the following resolution which was adopted by a rising vote:

Resolved: That this Board by unanimous vote tender its thanks for and appreciation of the generous hospitality extended by the Detroit Florists' Club and Mr. Philip Breitmeyer of Detroit during our sessions; also to the management of the Hotel Statler, and the daily press of Detroit.

PHILIP F. KESSLER, HENRY PENN, CHARLES GRAHAM, Committee.

The Board then, on motion, adjourned, to meet in Detroit next August.

JOHN YOUNG, Secy.

NATIONAL PUBLICITY CAMPAIGN.

The spring schedule for our campaign advertising in magazines has been settled, and contracts placed as follows:

Literary Digest, one page, March 22; Outlook, 200 lines, March 29; Red Book, 200 lines, April; Collier's, one-half page, April 12; Hearst's, 200 lines, April; Literary Digest, one page, April 19; Cosmopolitan, 200 lines, May; Sunset, 200 lines, May; Everybody's, 200 lines, May; Quality Group—Atlantic Monthly, Century, Harper's, Review of Reviews, Scribner's, World's Work, Munsey's, full page colors, May; Collier's, one-half page, May 3; Literary Digest, two columns, May 17; Metropolitan, full page colors, June; American Magazine, 200 lines, June.

The copy arranged for these advertisements is most attractive, and some of it along lines not previously exploited. Certain of the advertisements will be adapted to local newspaper advertising, and the Promotion Bureau now has in preparation a series of new electrotypes for use simultaneously with the issue of the magazine advertisements, all intended to link up with the national publicity. Readers of the magazines in every locality will easily recognize the connection, which is to the advantage of all florists using the electrotypes.

Three of these advertisements will also be featured in a new series of slides for use in the "movies." The series will also include suitable slides for Easter and Memorial Day. They will be of the same high quality as to color and design as the set previously issued, and which is still in good demand, so much so that our bureau has just placed an order for an additional supply.

Both slides and electrotypes will be fully described in a broadside which is to be sent out in a few days, but to be sure that a copy will be received, florists are asked to make special request of the secretary for a copy.

Flat copies of the colored advertising pages, without printing on the back, and suitable for framing and display, will also be mailed on request.

Florists must remember that this

year the campaign fund is set at \$100,000, over one-third of which is already subscribed. We are, however, approaching the end of the first quarter of the year, and should therefore be much farther advanced. The policy of making contributions need no longer be questioned. Results have proved that the campaign has been a wise move, and the object of the committees now is to extend it, so as to increase the benefit within reach. The producers of citrus fruits inaugurated their publicity campaign with a levy of one cent per box on all shipments, for publicity. They now gladly pay ten cents per box, so great has been the resulting benefit to their industry. This will be, without a shadow of a doubt, our own experience—it might be said that it is already.

What the committees really want, is early support. More can be done with a fund in the substance than in the shadow. If the whole fund were available now a better disposition could be made of it, and advantage taken of possibilities which cannot be expected to recur.

Florists everywhere, growers, wholesalers and retailers, who have not already subscribed, and there are many of them, are urged to help the committees to complete the fund at the earliest possible date, so that best results may be secured.

If you, Mr. Reader, have not yet subscribed, now is the time when your subscription will insure its fullest value.

The following subscriptions have been received and are in addition to those previously announced, annually for four years unless otherwise stated:

For Four Years—E. G. Reimers & Co., Louisville, Ky., \$10; Florists' Telegraph Delivery Association, Detroit, Mich., \$1,500; Emil Buettner, Park Ridge, Ill., \$50.

One Year—F. Walker Company, Louisville, Ky., \$10; Alex. Henderson, Chicago, Ill., \$25; Thomas L. Metcalf, Jr., Madisonville, Ky., \$5; Tong & Weeks Floral Co., Ashtabula, O., \$15; W. Pinchbeck, Ridgefield, Conn., \$10.

Additional Sub. for One Year—Peter Pearson, Chicago, Ill., \$20; Stuppy Floral Co., St. Joseph, Mo., \$100.

Total, \$1,745.00. Previously reported, \$32,360.50. Grand total, \$34,105.50.

JOHN YOUNG, Secy.

1170 Broadway, New York City.

March 15.

A LITTLE KNOWN HEDGE PLANT.

Those who are on the look-out for an uncommon hedge might do worse than try *Osmanthus ilicifolius*. It is a variety of the species *O. Aquifolium*, and is curiously like Holly. This evergreen shrub stands clipping and transplanting well. It is perfectly hardy and, what is more important, a very suitable subject for a draughty corner,—*The Garden*.

CLUBS AND SOCIETIES

ILLINOIS STATE FLORISTS' ASSOCIATION.

The thirteenth annual meeting of the Illinois State Florists' Association was held in the Floricultural building of the University of Illinois, Urbana, March 11-12. The meeting was called to order early Tuesday afternoon by Vice-President Hembreiker in the absence of President Keimel, who was unable to attend on account of impaired health.

After a few remarks by the chairman, the reports of the secretary and treasurer were presented, showing the association to be in good condition despite the adverse times.

Dr. P. A. Lehenbauer, in charge of the floricultural experiment work at the university, was called upon and gave a very interesting account of some of the problems now in hand, particularly those on "selection," "temperature, humidity and light" and "fertilizers" in their relation to production.

George Asmus, chairman of the publicity finance committee of the Society of American Florists, and President Ammann of that organization, told of the great advertising campaign the national society is conducting under the "Say it with Flowers" slogan, urging every florist, large and small, to subscribe his just share, according to his volume of business, to the fund for this purpose. Proofs were exhibited of the effective advertisements prepared for a long list of coming magazines, and the speakers felt that as all florists would profit by this publicity, all should share the expense. Upwards of \$40,000 was spent in this national publicity work last year, with the beneficial results already known to the trade, and it is the intention to spend \$100,000 the present year, \$33,000 of which has already been subscribed.

During the discussion of publicity and advertising, it was disclosed that the Milwaukee plan of assessing growers and retailers had proved so satisfactory that arrangements are in progress to increase the payments in the local co-operative advertising fund, levying two per cent. of the amount of their purchases on retailers and one per cent of their sales, on growers. It was also stated the St. Louis florists are considering the advisability of adopting a similar scheme.

In considering the time and place of the next annual meeting, the proposition to hold this in connection with

the convention and exhibition of the American Carnation Society at the Hotel LaSalle, Chicago, January 21-22, 1920, was adopted.

The selection of officers for the ensuing year resulted in the re-election of Wm. J. Keimel, Elmhurst, president; W. J. Hembreiker, Springfield, vice-president; J. F. Ammann, Edwardsville, secretary; F. L. Washburn, Bloomington, treasurer.

The Evening Session

At the evening session in the Inman Hotel, Professor Dörner spoke of the increasing need of more buildings in his department for the accommodation of the students. The bulletin on antirrhinum rust is practically ready for



WM. J. KEIMEL.

Re-elected President Illinois State Florists' Association.

the printer, and incidentally he mentioned that so far the experimenters found destruction of infected plants the only remedy, propagating from seeds. The violet, he said, has been scheduled for early investigation.

Professor Blair had for his subject the impossible task of financing the university under present conditions with the funds available.

Most of the visitors stopped over until Wednesday to inspect the university grounds, buildings and work.

ST. LOUIS FLORIST CLUB.

The regular monthly meeting of the St. Louis Florist Club was held March 13th at Jules Bourdet's greenhouses, with about fifty members in attendance, President Aug. Hummert in the chair. Jules Bourdet spoke on the

publicity campaign and endorsed the Milwaukee plan whereby the growers deduct ½ per cent from the amount paid them by the wholesalers, and the retailers settle with the wholesalers at 1 per cent. A carnation show was the feature of the meeting. The next meeting will be held at the Windler Wholesale Flower Co. J. W. Patton, Otto Sanders and H. Rohrbach were unanimously elected members. The flowers exhibited were auctioned by Wm. C. Smith, which netted the club a goodly sum. Among the exhibits were the following: Giant seedling violets, Joseph Hauser; Carnation Washington. Billy Edwards; White Enchantress and Enchantress Supreme Carnations, Woodlawn Garden; jonquils, carnations and snapdragon, R. W. Rowe; Carnation Laddie and Rose Premier, E. G. Hill Co., Richmond, Ind.; Carnation Ruth Baur, O. E. Steinkamp, Indianapolis, Ind.

NASSAU COUNTY HORTICULTURAL SOCIETY.

The regular monthly meeting of the above society was held in Pembroke Hall, Glen Cove, on Wednesday, March 12th, at 7 p. m., with President Joseph Adler presiding. Five petitions for active membership were received. The judges appointed for the monthly exhibits were Thos. Scott, Thos. Meech and W. G. Wyatt. The following awards were made. Competition: 12 stalks of rhubarb, 1st, Thos. Twigg; 6 heads of celery, 1st, Ernest Westlake; exhibition, pan of narcissus, honorable mention to Thos. Twigg and a beautiful display of pansies, cultural certificate to Thos. Twigg. Mr. Twigg upon request, gave a brief account of his method of growing pansies which proved quite interesting. An essay was ably read by Ernest Westlake, entitled, Wanted—A Gardener, written by Robt. Weeks, Cleveland, O. A letter of thanks was ordered sent the author. Arthur Harris, one of our members who went over seas with the Canadians, was present and spoke briefly. We were all pleased to have him with us again and to give the glad hand. P. W. Popp, vice-president of the National Association of Gardeners, was present and spoke briefly on that organization. Allen Kriechman, manager of the Oyster Shell Lime Fertilizer Co., was present and spoke a few words. A short discussion followed on the making of a Clay Tennis Court, which proved quite interesting and instructive. It was decided to hold a

spring show at our regular monthly meeting on Wednesday, May 14th. The executive committee was empowered to draw up a small schedule to be presented at our next meeting, April 9th, at 7 p. m. Competition: 9 spikes of antirrhinum, 3 heads of lettuce and a vase of out-door flowering shrubs. It was decided on motion of Thos. Twigg that we hold a smoker at the conclusion of this meeting.

NEW YORK FLORISTS' CLUB.

The regular monthly meeting was held March 10th, with about 175 in attendance.

The Dinner Committee reported over two hundred tickets disposed of for the banquet on March 15th.

Resolutions of sympathy on the deaths of William J. Stewart, late editor of *HORTICULTURE*, and Mrs. Fennrich, were read and approved, and ordered to be sent to the families of the deceased.

New members elected at this meeting were as follows: J. W. Niemer, Whitestone; G. Schaefer, Maspeth; W. F. Iler, C. Futterman and E. A. Hartland, New York City; W. W. Mathews and E. Fardel, Great Neck; John Joyce and J. Schneider, Congers, and A. M. Daurenheim, Brooklyn. Nominations for membership were R. Tiebaldei, A. M. Vanderschoot and C. Nieman, New York City, and F. Heild, Tarrytown.

A lengthy discussion on publicity for florists was entered into by Messrs. Totty, Pierson, Vick, Stumpp and others. F. R. Pierson reported on the recent meeting with the Federal Horticultural Board at Washington.

Ed. E. Salt, an industrial accounting expert, addressed the club on Getting at the Root of the Income and Outgo, emphasizing the necessity of a cost system in every branch of the trade. He was given a standing vote of thanks.

The Committee of Awards reported as follows: Vase of *Lilium giganteum*, M. H. Bickley, Wallingford, Pa., vote of thanks; sport of Enchantress Supreme, Le Cluse & Le Cluse, Blue Point, L. I., vote of thanks.

ROCHESTER FLORISTS' ASSOCIATION.

Dendrobiums and varieties from Mrs. Wm. Kimball's conservatories were exhibited by C. B. Ogsten at the meeting last week, among them being a rare pure white variety. The variety *thyrsoiflorum* was particularly well grown.

Wm. De Graff spoke on the League of Nations, contrasting the conditions of today with those of Washington's

time, when he advised the people to keep out of international alliances, conflict and treachery. Such an alliance is now vitally necessary for the future of America, as well as of the world, Mr. De Graff believed.

A petition was sent by the association to Sen. Thomas B. Dunn protesting against the ruling of the Federal Horticultural Board, the petition being signed by 44 local florists.

Harry E. Bates, having been called to Albany with the removal of his firm, Lord & Burnham, tendered his resignation as President of the Association, and has been succeeded by Vice-President Geo. T. Boucher.

THE WESTCHESTER AND FAIRFIELD HORTICULTURAL SOCIETY.

The regular monthly meeting was held in Hubbard's Hall, Greenwich, Conn., Friday evening, March 14, President William Graham in the chair. A communication was read from the Secretary of Agriculture, Washington, D. C., giving his reasons for the quarantine order and describing the damage that has been done, the millions of dollars that have been spent in trying to get rid of the dangerous insects, scale, rust, blister, borers, beetles, earwigs and a lot of other pests which Secretary Houston claims have come in from European nursery stock. Mr. Houston's letter was left over until next meeting for further discussion. President Graham read a very good paper on carnation culture. James Stuart received a cultural certificate for a collection of seedling amaryllis, Messrs. Williamson, Brown, Atchison and Smith, vote of thanks for various exhibits.

JACK CONROY, Cor. Sec.

THE HORTICULTURAL SOCIETY OF NEW YORK.

Do not forget the spring show to be held at the American Museum of Natural History March 28th to 30th. There will be no big show at the Grand Central Palace this year, so it is possible to devote all energies to make the show at the American Museum a great success. Schedules will be sent on application to the secretary, George V. Nash, Mansion, New York Botanical Garden, Bronx Park, N. Y. City.

GEORGE V. NASH, Secy.

LADIES' SOCIETY OF AMERICAN FLORISTS.

The following ladies have been appointed by the president to serve for a term of two years on the board of directors: Mrs. J. F. Ammann, Illi-

nois; Mrs. J. J. Hess, Nebraska; Mrs. Chas. H. Totty, New Jersey; and the following ladies from Michigan to serve on the Introduction Committee at the coming convention: Mrs. Fred Breitmeyer, chairman, Mrs. Philip Breitmeyer, Mrs. E. A. Scribner and Mrs. Robt. Jean.

Mrs. H. G. BERNING, Secy.

THE ONION FLY.

To the Editor. I have read with much interest the two articles published in *HORTICULTURE* of Feb. 1st and March 8th, treating on the Onion Fly, and maggot. As the description of this garden pest has been thoroughly given in those above mentioned articles, I will only mention my experience in dealing with said pest when growing a crop of onions.

As soon as the seedlings break through the soil I apply a dusting of one part Flowers of Sulphur and six parts air slacked lime thoroughly mixed together before application. This mixture can be applied by hand or dusting machine according to size of crop that is grown. I repeat the dose once a week until the end of May or first week in June. I have always found this little known remedy successful not only for Onion Fly but also for the Cabbage Maggot, and club root. In application to the cabbage maggot I give a dusting after the seedlings show the rough leaf, then again after transplanting and followed with two other applications of ten day intervals. For club root one dusting applied while plants are in the seed bed, as above mentioned, and a thorough dusting in the rows and holes before transplanting, will keep the club root fungus in check. I consider that all ground that is to be planted with any of the brassica family should be manured and plowed in the fall and given a thorough dusting of lime in the early spring and well cultivated before planting. I note in the article published in *Horticulture* of Feb. 1st of the use of paraffin (in kerosene) emulsion in the destroying of the maggots, this I would recommend only to be applied to such onions that are to be kept for winter use and storage, otherwise if applied to onions for use in a young stage will make them unfit to eat. I recommend the use of kerosene emulsion to growers who have been troubled with the maggot, a small wine glass full of kerosene to three gallons of water, keeping it thoroughly agitated while applying along the rows, and doing it only in the later afternoon or on a cloudy day.

JOHN S. DOIG,

Barrington, R. I.

AMERICAN TILIAS.

The basswoods are most interesting and ornamental trees. The European species, some of the American species and a few Asiatic species have been planted extensively in parks and gardens for many years. The paper written lately on American Tiliacs by Dr. C. S. Sargent in the Botanical Gazette, Volume 66, shows a vast amount of work in the study and investigation of these interesting trees throughout many parts of North America and should stimulate interest in the further study of these trees.

In Sargent's "Manual of The Trees of North America," published in 1905, six species of basswoods were credited to North America; in his recent paper Dr. Sargent admits twenty-nine forms, that is, fifteen species and fourteen varieties. Ten new species are described. This is a remarkable addition to this interesting genus in fourteen years' time. A number of the varietal forms described in this paper, Dr. Sargent thinks may in time be admitted as species when they are better understood.

The opinions of nurserymen and horticulturists will have to be changed considerably in regard to the proper understanding of several basswoods that have been sold in nurseries. The conception of what has generally been considered the common American Linden, and has been known botanically as *Tilia Americana*, and is now known as *T. glabra* is altogether different from the old conception, that is to say, a number of different species have been involved in *T. glabra* (*T. Americana*). For example in Western New York State, and adjoining states, we have always considered there was one species of basswood, that is the common American basswood, *T. glabra* (*T. Americana*). We find out now that another distinct species has been mixed up with this, and Dr. Sargent calls this *T. neglecta*. It is rather curious that the latter is the prevailing species in Western New York, and *T. glabra* (*T. Americana*) is uncommon. This basswood was distinguished by a French botanist many years since from trees cultivated in France. It is quite distinct in the greyish colored leaves underneath, and usually covered more or less thickly with white hairs.

Frederick Ahrens, who was thirty-eight years ornamental foreman for Ellwanger and Barry, who have lately abandoned the nursery business, tells me that they distinguished this basswood (*T. neglecta*) as the "Grey-barked basswood" in the nursery, and he always preferred it as an excellent stock on which to bud other bass-

woods. It was only last year that the writer was aware of this. It is interesting to know that this nursery firm distinguished this basswood (*Tilia neglecta*) many years since for nursery purposes.

I have noticed that *T. glabra* (*T. Americana*) is very common in northern Ontario, Canada; in fact it is the prevailing species, and *T. neglecta* is uncommon. *T. glabra* can be distinguished by the coarsely toothed leaves green on both sides, and quite smooth beneath. *T. glabra* (*T. Americana*) reaches further north than any other basswood.

Dr. Sargent has changed our ideas of *T. heterophylla*. We have grown a basswood for many years under this name, and Dr. Sargent calls this *T. monticola* and describes it as a new species. This is a remarkably handsome tree. The obliquely shaped leaves are very large, often seven to eight inches long, and are covered beneath with white hoary tomentum. It has very showy, large flowers and blooms at Rochester about June 12th. The young branches in winter are bright red. Dr. Sargent says of *T. monticola*, "with its large leaves snowy white beneath on the lower surface, and drooping gracefully on their long petioles, and its large flowers, it is the showiest of the American Lindens."

Whether the true *T. heterophylla* is in cultivation or not I do not know. *T. heterophylla* var. *Michauxii* is said by Dr. Sargent to be indigenous in Western New York. We think that this is probably an error as we have not seen any basswood to fit that description in this part of the world. It is interesting to note that Dr. Sargent does not describe any hybrids. This is quite remarkable as the European basswoods are known to hybridize freely.

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Ten minutes walk to 50 theatres

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HARRY P. STIMSON

Only New York Hotel Window-Screened
Throughout

Most of the newly described basswoods are from the southern states, and probably some of them will not prove hardy in the north. It is very desirable that all of the new species and varieties described, will in the near future be introduced to parks and private estates in different parts of the country where the environment will suit them.

OBITUARY.

Frank A. Friedley.

Frank A. Friedley, well-known florist of Cleveland, Ohio, passed away unexpectedly March 10th, after an illness of several days, of bronchitis and quinsy, aged 37 years. Mr. Friedley was born in New Albany, Ind., and removed to Richmond when a boy. He received his first training with E. G. Hill. After leaving Richmond he was employed at Dayton, Ohio, Cincinnati, Joliet, Ill., and Springfield, Ill., finally locating in Cleveland in 1908. He was a member of the S. A. F. and O. H., American Carnation Society and Cleveland Florists' Club, besides several fraternal organizations. His widow survives him.

Chrysanthemum Cuttings

Major Bonnaffon, Chas. Razer, Oconto, Pacific Supreme and Chrysolora, ready April 1st, \$2.50 per hundred.

Also, Extra Strong Cuttings of Carnation Matchless, \$20.00 per thousand.

W. D. HOWARD

MILFORD, - - MASS.

DELPHINIUMS: RAISING PLANTS FROM SEED.

In the minds of not a few people there is an idea that the raising of perennials from seed is a long and tedious process, attended with results that are not always satisfactory. With some subjects there may be a deal of truth in this; but my experience, so far as Delphiniums are concerned, prompts me to say that one often "lights upon a prize" through the medium of the seed packet that more than compensates one for the trouble bestowed upon the seedlings. It is due to these beautiful and stately plants to say that the methods of raising them from seed is not a protracted one, and those who make a practice of sowing biennials need have no misgivings about their commencing to bloom in the second year, provided they are looked after properly. If seed is sown in slight heat in February or March in pans of a light compost, and the seedlings subsequently pricked out and placed in a cold frame for a few weeks before planting them out in May, one gains much time; but I have been just as successful with them when seed has been sown in a frame in May or on a warm border. In my opinion the raising of Delphiniums from seed in this way is not without excitement, and if only the seed is procured from a good source, one often comes across new arrivals which possess real merit, while the remainder of the plants—if seed is procured from a firm of repute—usually turn out well. For the first time of blooming, at any rate, I have found it best to limit a plant to three stems as being the more satisfactory; indeed, I think a good many lovers of hardy herbaceous subjects are finding out for themselves that it is much the best to restrict the output of their plants. To say the least, huge clumps are never so profitable as small ones,

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Little Tree Farms, FRAMINGHAM, MASS.

We have millions of growing **EVERGREEN AND DECIDUOUS TREES** complete in grades and sizes.

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STAR BRAND ROSES

"American Pillar" and nearly every
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Small, medium and large sizes supplied
Price list now ready

THE D. HILL NURSERY CO.

Evergreen Specialists. Largest Growers
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CHRYSANTHEMUM SPECIALISTS

ELMER D. SMITH & CO.

ADRIAN, MICH.

as, should a dry season follow, the centre shoots suffer from overdryness through being smothered up. I have found in growing Delphiniums that it is much the best to confine the plants to, say, half a dozen shoots, tying each out separately to a stake, rather than permit the whole to develop. The spikes of bloom, needless to say, are finer in every way where the output of shoots is restricted.

Nothing, in my judgment, suits Delphiniums better than good loamy soil with which rotted farm or stable manure has been incorporated, with another mulch, just before blooming, of old manure or leaf-soil to conserve moisture, for they are water-loving plants. As back-row plants they have long been esteemed, especially on a sunny border; but comparatively few go to the trouble of securing new sorts by the way of the seed packet, which, after all, is not a difficult business.

W. L. L. in *The Garden*.

CATALOGUES RECEIVED.

H. E. Meader, Dover, N. H.—Mead-er's Blue Ribbon Gladioli. Standard varieties alphabetically listed, with illustrations.

Cherry Hill Nurseries, West Newbury, Mass.—A tempting list of choice evergreen trees and shrubs, deciduous trees and shrubs, vines, roses, herbaceous plants and gladioli.

NEWS NOTES.

Boston—Mayor Peters has announced the appointment of Charles A. Hogan, 359 Geneva avenue, Dorchester, to the position of superintendent of parks. He will have charge of all planting in parks, streets and playgrounds. He has been foreman in the Back Bay district. The mayor also announced changes in the park and recreation department which will result in a saving of \$2,300 a year to the city, as a result of the promotion of James B. Shea from deputy commissioner, to be chairman of the park board. Mr. Shea's former position will remain vacant. William P. Long, who has been superintendent of street trees and moth suppression, is promoted deputy commissioner, and James E. Phelan, storekeeper, is promoted to be storekeeper and property clerk.

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PACHYSANDRA TERMINALIS

50,000 out of 2 1/4
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DRACAENA CANES

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All the best commercial varieties including:

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Write for Prices. Spring Shipment.

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95 Chambers St., New York

IN MEMORIAM.

C. S. Harrison.

Harrison Nurseries Co.,
York, Nebraska.

It was in the HORTICULTURE that I learned of the passing away of "Father Harrison". Deeply moved and shocked by the sad news, and knowing of him in so short a time, I can understand what a blow his death is to you. He was a man whose place will not be easily filled in the world, how impossible to fill it in his home.

You have given back to earth the value of cycles of experienced years which has matured yourselves, (and by his works in print for others to follow,) to the point of each of you, individually, to take his place. You have reached that cycle in which you now rest upon your own responsibility. You have given back to Him who lent it to you. The giving back is very hard. No one but you alone knows the parting. In after years you may have friends, fond, dear kind, and loving friends, but never will you have again the inexpressible love and gentleness lavished upon you. Often will you sigh in your struggles with the hard uncaring world, for the sweet deep security you felt in the younger days, in the studies of nature and Mother earth, in listening to that tender and untiring voice. All these things will come to pass and his silent voice from that sacred sod will whisper to you to remember him in the victory won, to ever live out your time in the spirit as he left you. He is the same good Father as he was here whom we loved so well.

You are better, you are riper, you are richer even in this hour of bereavement than you were. God gave and He has not taken away except in outward form. He holds, he keeps, he reserves, he watches and he loves.

You shall have again that which you have given back, to him only outwardly. Meanwhile hold the key, in your hand,—the golden key of faith and love, which will open the door of knowledge and wisdom only.

There is no other door so fast that a mother's love and a father's love will open.

In the Spiritual Kingdom let us picture him as a child. Let us thank God, for the light which he has kindled here in the flowery kingdom and burns so pure a flame, and which will teach and guide us both in Brotherly Love and prosperity and may we thank God that this child was to go to a better place, and perhaps it was for the best in his passing after suffering the loss of his vision. Yes, it is heartrendering to dwell on his thoughts of the last sight of the "Richard Carvel".

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YELLOW KING HUMBERT (Queen Helen)	\$7.50	\$70.00
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CONOWINGO	3.50	30.00

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128 Chambers Street Seedsmen NEW YORK CITY

Last November, on learning of his affliction, I could not rest, but wrote him in view of comforting him.

You have our heartfelt sympathy in your deep sorrow. We are never ripe till we have been made so by suffering. We belong to those fruits which must be touched by frost before they lose their sourness and come to their sweetness.

In this bereavement let us so live that in due time our Maker calls us home to join him and meet again never to be separated.

Yours in the Brotherly Love together with my fellow members of the American Peony Society,

CHAS. H. NEWHARD.

NEWS NOTES.

Eddyville, N. Y.—The Amawalk Nurseries are removing their main office to Amawalk, N. Y.

Sherman, Tex.—Charles W. Witbeck, formerly connected with the New York seed trade, is now with the Ferguson Farms Co.

Kansas City, Mo.—T. J. Noll & Co. are moving from 1109 to 1108 Grand avenue, the change made necessary owing to increased business.

Savanna, Ill.—Joseph Dunn and John Lambert have acquired the Savanna Greenhouses, which have been closed the past winter.

Because the hostilities are over do not shift into careless spending, but thrift forward into wise saving. Buy W. S. S.

AMEND PLANT QUARANTINE TO ADMIT FLOWER BULBS.

The quarantine governing the importation of nursery stock and other plants and seeds into the United States has been amended to permit the importation of lily bulbs, lily of the valley, narcissus, hyacinth, tulip, and crocus packed in sand, soil or earth, provided such sand, soil or earth has been previously sterilized in accordance with methods prescribed by the Federal Horticultural Board. Sterilization must be done under the supervision of an authorized inspector of the country of origin, who must certify to it. This provision is amendatory to Regulation 3 of the rules and regulations supplemental to the notice of quarantine, which required that such bulbs when imported must be free from sand, soil or earth. It was brought to the attention of the board, however, that dry earth is the only suitable material known for packing these bulbs, and experts of the Department of Agriculture advised that such material can be cheaply and satisfactorily sterilized by heat in such way as to involve no additional risk of introduction of dangerous plant pests.

"Extravagance rots character; train youth away from it. On the other hand, the habit of saving money, while it stiffens the will, also brightens the energies. If you would be sure that you are beginning right, begin to save."—(Theodore Roosevelt.) Buy W. S. S.

SEED TRADE

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Officers—President, F. W. Bolgiano, Washington, D. C.; First Vice-President, Wm. G. Scarlett, Baltimore, Md.; Second Vice-President, David Burpee, Philadelphia, Pa.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

Cabbage Seed Supply Low.

The shortage of cabbage seed is leading plant pathologists at the Wisconsin College of Agriculture to advise treating all the seed with corrosive sublimate before it is planted. Seed shortage combined with high prices is throwing on the market an unusual amount of seed infected with black leg and black rot. The supply of Danish seed is not available this year and the New York seed supply has also decreased.

The treatment, as given by R. E. Vaughan, plant pathologist, is: "Use a solution of 1 part corrosive sublimate to 100 parts of water. The corrosive sublimate is sold in small tablets. It is extremely poisonous and for that reason should be handled carefully and kept out of the way of children and animals.

"Put the cabbage seed in a small bag and place it in the solution for 30 minutes, remove from the solution and rinse in clear water, then empty the seeds from the bag and dry them on paper or cloth."

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HOW TO GROW RUST-RESISTANT ASPARAGUS.

The Washington family of rust-resistant asparagus, developed by the United States Department of Agriculture in co-operation with the Massachusetts Agricultural Experiment Station and other co-operators throughout the country as the result of thirteen years of effort, is now well disseminated among interested growers and seedsmen, some of whom have available stocks of the new strains for sale. The pedigreed stock thus far distributed to growers is intended to form a basic stock for further breeding work. The Department of Agriculture announces that while it will continue to distribute the new strains, private enterprise must be looked to henceforth to furnish the general trade with its main supply of seeds and roots.

The department will not make general distributions of seeds or roots of the new strains. The names of firms and individual growers who have stocks of the new strains may be obtained from the Bureau of Plant Industry, Department of Agriculture.

Growers Should Keep Records.

Improved stocks thus far distributed are from matings of the male plant Washington with the female plants Martha and Mary and two other females as yet unnamed, R2-22 and R4-101. Pedigree numbers or combinations of unnamed females with Washington, it is pointed out, should be preserved by growers, as some of them will be named later and these records will be valuable.

Cultural suggestions for the growing of the new strains include early sowing, clean seed beds, a small percentage of spinach or radish seeds to mark the row for cultivation before the asparagus seedlings show, the dropping of seed by hand five or six to the

foot, cultivation between the rows with cultivators or scuffle hoes, and removal of weeds in the rows by hand. At the end of the season the tops should be allowed to die down to make a covering for holding snow. A layer of coarse hay or straw to prevent winter-killing should be put on after the ground has frozen.

How to Handle Seedlings.

In digging seedlings great pains should be taken to preserve all the storage roots unbroken and unbruised. Trimming the roots down to a uniform length of six or eight inches is strongly condemned. One-year-old roots are said to do better than two-year-old roots of the same stock. It has been found inadvisable to plant a permanent bed on ground occupied by seedlings the year before.

The ideal shoot should be about an inch in diameter, straight and not much flattened, of clean growth, with scales fitting closely in a tight bud.

The new pedigreed strains, to be available for seed production, must not be planted in fields near inferior varieties.

The grower who expects to sell seeds or roots is reminded that constant care is necessary to keep up a high standard.

To get the best returns from fields of the new strains for market purposes, they should be labeled and sold as Washington asparagus.

The Department of Agriculture has recently issued a circular giving information on the breeding and culture of the new rust-resistant strains of asparagus supplementary to that on general asparagus growing contained in Farmers' Bulletin 829.

Albany, Ga.—The J. S. Smith Seed Co. of Columbus, Ga., have opened a branch store in this city.

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Boston—Penn the Florist, 124 Tremont St.

Brooklyn, N. Y.—Wilson, 3-5 Greene Ave.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.

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Freesia	4.00	to 6.00	3.00	to 4.00	3.00	to 6.00
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Stelia	1.00	to 1.00	1.00	to 1.00	1.00	to 2.00
Marguerites	3.00	to 6.00	1.00	to 2.00	1.00	to 2.00
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Sweet Peas	1.00	to 3.00	.40	to 1.25	1.00	to 3.00
Gardenias	10.00	to 100.00	10.00	to 30.00	30.00	to 40.00
Adiantum	1.00	to 1.50	1.00	to 1.50	1.00	to 2.00
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Asparagus Plumosus, & Spreng. (100 Bchs)	35.00	to 50.00	25.00	to 75.00	50.00	to 75.00

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Flower Market Reports

Conditions have not changed materially in the BOSTON market this week with the exception of large outside orders for carnations, which, with a shortening up in the supply has caused prices to advance somewhat. American Beauty roses are more plentiful than has been the case in the last few weeks and the general supply of roses while still large is of superior quality. Carnations are also excellent as is also lily of the valley. Easter lilies are scarce while callas are plentiful with a good demand. Violets and sweet peas are seen in large quantities but buyers are numerous and they find a ready sale. Miscellaneous and bulbous stock is of excellent quality but somewhat scarce.

The tables are fairly well filled with flowers and the customers have a stock to select from that not only is complete in all that the season affords but the quality covers a range that will adapt itself to the needs of all. Whether it is the cheap flower for the inexpensive design or the fancy grade for the corsage or basket, it can be had at this time. There is a good demand for flowers but the supply is gradually running ahead and unless some change comes the inevitable will happen and a glut will come. In addition to the home grown bulbous stock there are quantities of southern jonquils coming in daily. Violets from the East are another source of vexation to some. The quality does not compare favorably with that of the home grown singles but to those buyers to whom a violet is a violet, the effect on prices is not of the best. All kinds of roses are in good supply and quality is excellent. Carnations are more plentiful also and iris, lilies, calendulas, forget-me-not, freesias, hyacinths, jonquils and sweet peas from the short stemmed to the extreme lengths, pansies and other flowers make a very attractive display to tempt the buyers. St. Patrick's Day was hardly received with the enthusiasm of other years.

Business is holding up well. Supply has increased and has eased up the market considerably. Shipping business continues good. While prices have fallen somewhat they are holding firm at a point that is much higher than the average for this time of the year. The rose supply is heavier and has eased up the market

The Chicago Flower Growers Association

WHOLESALE GROWERS of CUT FLOWERS and PLANTS

L. D. Phone Randolph 631

182 N. Wabash Avenue, CHICAGO

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Mar. 19	CHICAGO Mar. 18	BUFFALO Mar. 17	PITTSBURG Mar. 16
Roses				
Am. Beauty, Special.....	60.00 to 75.00	50.00 to 75.00	60.00 to 75.00	60.00 to 75.00
" " Fancy and Extra.....	35.00 to 50.00	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00
" " No. 1 and culls.....	10.00 to 25.00	15.00 to 25.00	10.00 to 20.00	8.00 to 20.00
Russell.....	8.00 to 25.00	8.00 to 20.00	6.00 to 20.00	12.00 to 30.00
Hadley.....	15.00 to 25.00	15.00 to 25.00	6.00 to 10.00	10.00 to 15.00
Euler, Mock.....	15.00 to 25.00	15.00 to 25.00	5.00 to 8.00	0.00 to 30.00
Arenberg, Hoosier Beauty.....	6.00 to 15.00	6.00 to 20.00	6.00 to 15.00	10.00 to 15.00
Ward, Hillingdon.....	6.00 to 12.00	4.00 to 15.00	4.00 to 6.00	0.00 to 15.00
Killarney, Key, Taft.....	6.00 to 12.00	4.00 to 15.00	5.00 to 12.00	6.00 to 15.00
Ophelia, Sunburst.....	6.00 to 12.00	4.00 to 20.00	6.00 to 12.00	8.00 to 25.00
Carnations	4.00 to 8.00	2.00 to 4.00	2.00 to 5.00	4.00 to 6.00
Cattleyas	5.00 to 25.00	3.00 to 50.00	50.00 to 60.00	50.00 to 60.00
Lilies, Longiflorum	15.00 to 20.00	12.00 to 18.00	15.00 to 20.00	15.00 to 20.00
Lilies, Speciosum	12.50 to 15.00	12.00 to 15.00	5.00 to 10.00	10.00 to 20.00
Callas	2.00 to 5.00	2.00 to 4.00	3.00 to 5.00	3.00 to 5.00
Freesia	2.00 to 5.00	2.00 to 4.00	3.00 to 5.00	3.00 to 5.00
Roman Hyacinths	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Stevia	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Marguerites	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Lily of the Valley	6.00 to 8.00	5.00 to 6.00	8.00 to 10.00	6.00 to 8.00
Snapdragon	10.00 to 20.00	12.00 to 18.00	8.00 to 10.00	6.00 to 8.00
Violets	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Narcissus	4.00 to 5.00	3.00 to 5.00	4.00 to 5.00	4.00 to 5.00
Calendula	4.00 to 6.00	2.00 to 5.00	3.00 to 5.00	2.00 to 4.00
Sweet Peas	1.00 to 3.00	1.00 to 2.50	1.00 to 2.00	1.00 to 2.50
Gardenias	1.00 to 2.00	2.00 to 3.00	1.00 to 2.00	1.00 to 2.00
Adiantum	1.00 to 1.50	1.50 to 2.00	1.00 to 2.00	1.50 to 2.00
Smilax	30.00 to 40.00	18.00 to 25.00	20.00 to 25.00	20.00 to 25.00
Asparagus Plu. & Spreng. (100 Bhs.)	50.00 to 75.00	25.00 to 50.00	35.00 to 50.00	20.00 to 60.00

to a certain extent but not to an amount to cause any very substantial reduction in price. Carnations are in a good supply. Easter lilies, rubrum lilies and callas are available. Sweet peas are in a heavy supply and meet with good demand. The supply of tulips, daffodils, Dutch hyacinths, Narcissus poeticus and freesia is fair and proves good property. Snapdragon continue to meet with a good demand. Mignonette is selling well. Other offerings are orchids, baby primrose, wallflower and forget-me-not.

There was no great increase in the supply of carnations last week and the market cleaned up well. Prices on these are now more moderate and very fine stock can be had at reasonable figures. Roses came in more abundantly and the quality also improved. American Beauty took its first drop in many months the hundred grade being now freely quoted to seventy-five and other grades in proportion. Russell is very fine and in good supply. Ophelia is also very good and ranked among the leaders. Sweet peas were never better, some really wonderful Yarrowas and others of the orchid type to be seen, big flowers and long stems, exceptionally well done. Daffodils are more plentiful and show good culture in the finer sorts such as Empress from nearby greenhouses. There is the usual influx of outdoor daffodils from the South. These go rather slow

and at low figures. Iris tingitana is still in evidence but seems to be nearing its wind up. Cattleya trianae and Schroederae in increased supply and of very good quality. The boys are having to hustle to place all that's coming in at prices that will please the growers. The shamrock was much in evidence for St. Patrick's day as was also (we regret to say) the green carnation, sweet pea and daffodil. If a thing is unnatural its nasty—and vice versa. The three-leaved shamrock typical of the religious Trinity preached by St. Patrick is natural and beautiful. The others are neither. We seem to be a primitive bunch yet about many things. A lot of the cave man still remains. And we can't blame it all on the war, either.

Business during the past week has been very good with an abundance of funeral work and at the end of the week a heavy demand for St. Patrick's novelties and various green blossoms were disposed of. Carnations are of good quality and are in good demand. Violets are plentiful and sell readily. The supply of roses has been small during the past week. Many fine large sweet peas are available and are easily cleaned up. Bulbous stock includes some very fine freesia, jonquils, narcissi, daffodils, Roman and Dutch hyacinths, single and double tulips and lily of the valley. The supply of greens is none too plentiful.

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MAURICE L. GLASS, Treasurer

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Part of Week ending Mar. 15 1918		First Part of Week beginning Mar. 17 1918	
American Beauty, Special	40.00	to 75.00	40.00	to 75.00
" " Fancy and Extra	20.00	to 40.00	20.00	to 35.00
" " No. 1 and culls.	5.00	to 15.00	3.00	to 15.00
Russell,	5.00	to 35.00	4.00	to 30.00
Hadley,	5.00	to 60.00	4.00	to 50.00
Euler, Mock, Key	3.00	to 25.00	3.00	to 20.00
Arenberg, Hoosier Beauty	3.00	to 12.00	2.00	to 10.00
Ward, Hillingdon	3.00	to 12.00	2.00	to 10.00
Killarney, Taft	3.00	to 8.00	2.00	to 8.00
Ophelia, Sunburst	3.00	to 12.00	2.00	to 12.00
Carnations	2.00	to 5.00	2.00	to 5.00

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Local and General News

CHICAGO.

Mrs. Allie Zech, who underwent an operation at the Union Hospital, March 17th, is reported as doing as well as could be expected.

H. Shaeffer has rented the store at 5518 W. Chicago avenue and will open a retail store there as soon as the fixtures are installed.

J. E. Pollworth is receiving the congratulations of his friends on his recovery from an illness which seemed likely at one time to cause the loss of his eyesight.

Walter Stoklos, for eleven years with Poehlmann Bros., has made a start for himself and taken room 211 at E. Randolph St., formerly occupied by Archie Spencer, where he will do a wholesale commission business.

C. Pfund Co., of Congress street, Wenonah avenue, Oak Park, have sold their greenhouses and retail store to George Jung, who has had a store at 1727 N. Campbell avenue and who will take possession of the new place at once. Mr. Pfund, who has a fine nursery, started at Elmhurst, will devote all of his time to it.

Some of the growers of cut flowers who do not take kindly to the influx of southern jonquils into this market each spring, may possibly not take into account how much depends upon their sale. A. L. Vaughan, who recently returned from a southern trip, says many thousands of dollars are invested in these flowers.

A. Henderson & Co. have completed the changes in their newly acquired wholesale and retail seed store and are now having a good demand for their cannas, caladiums, tube roses and gladioli. A stock of Boston ferns and blooming bulbous plants are brightening the store and giving retail customers something to purchase while waiting for gardening time.

Miss Gertrude Lewis and Tony Rocca have rented the store at 55 E. Jackson Boul. in the Cable building and will open a retail flower store about April 5th. The firm will be known as The Lewis & Rocca Co. Miss Lewis has been for 17 years with J. Mangel and is well known for her artistic ability in the arrangement of flowers and her courteous manners have made her a favorite with customers. Mr. Rocca has been with the same firm 11 years and is a young man

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Part of Week ending Mar. 15 1918		First Part of Week beginning Mar. 17 1918	
Cattleyas.....	20.00	to 50.00	20.00	to 50.00
Lilies, Longiflorum.....	10.00	to 15.00	10.00	to 15.00
Lilies, Speciosum.....	10.00	to 15.00	10.00	to 15.00
Callas.....	10.00	to 15.00	10.00	to 15.00
Freesia.....	1.00	to 3.00	1.00	to 2.00
Roman Hyacinths.....	1.00	to 3.00	1.00	to 2.00
Stevia.....	1.00	to 2.00	1.00	to 2.00
Marguerites.....	2.00	to 4.00	2.00	to 4.00
Lily of the Valley.....	6.00	to 16.00	8.00	to 25.00
Snapdragon.....	.30	to .60	.35	to .50
Violets.....	3.00	to 5.00	5.00	to 5.00
Narcissus.....	15.00	to 50.00	15.00	to 50.00
Calendula.....	1.00	to 3.00	1.00	to 3.00
Sweet Peas.....	20.00	to 50.00	20.00	to 50.00
Gardenias.....	.....	to 1.00	.....	to 1.00
Adiantum.....	12.00	to 20.00	12.00	to 20.00
Smilax.....	15.00	to 35.00	15.00	to 35.00
Asparagus Plumosus, & Spreng (100 bunches).....				

of ability and well liked. Their friends wish them a full measure of success and believe they will have it.

Probably no whole store in Chicago contains so complete a variety of roses as does that of the J. A. Budlong Co. From the miniature rose to the Mrs. Russell, every variety of the season can be seen if the visitor comes early enough to see the stock before the day's shipping orders are filled, for this house is near the top of the list in the amount of shipping done. A casual glance at the tables today showed there were Nesbits, Sunburst, Ward, Milady, Hearst, Champ Wieland, Double White Killarney, Double Pink Killarney, Killarney Brilliant, Killarney, Cecil Brunner, Montrose, Mrs. Russell, Columbia and others.

H. N. Bruns returned from the hospital Saturday and is resting at his home a few days before taking up his duties at the store.

Archie Spencer, who had a retail flower store on the second floor of the Atlas block for three years, has made decided changes during the past week. Being a man of quick action, when opportunity offered he bought the Hoerber Bros.' lease, fixtures, etc., and then a few days later purchased the store of Chas. McKellar, which he now occupies. All are on the same floor. The Hoerber store is for sale. Mr. Spencer has as his right hand man Frank Ayers, who has been with Mr. McKellar many years and who is universally liked and respected.

ST. LOUIS.

An aquarium will soon be installed in the greenhouses at Shaw's Garden, the gift of the St. Louis Aquarium Society.

Walter Young has received his honorable discharge from service and joins his brother Charles at C. Young & Sons.

ROCHESTER, N. Y.

Albert Young of Wilson's Greenhouses is home sick with influenza.

Dewey Lester is now stationed in a camp near New York, but expects to be mustered out shortly.

Charles Curtis of Irondequoit had the decorations for the B. Forman Co. opening, using birch bark baskets and boxes filled with spring flowers and pussy willows.

Lieut. L. C. King, of Whitley County, Kentucky, through Supt. of Playgrounds Robert Barnhard, will present the Rochester Park Department with five holly trees. They will probably be planted in Highland Park, where there are now two specimen trees.

David Kanterowitz, 7 years old, was killed by a motor truck driven by Leo L. Shaff, of Wilson's Greenhouses, on Mar. 12. The driver did not see the child in time to prevent striking him, and the police held him blameless for the accident.

CINCINNATI.

E. Fries, of Ft. Thomas, is seriously ill.

E. H. Urlage has purchased the Thaden Flower Shop on Walnut Hills.

Arthur Becker, of the Avondale Floral Co., has been on the sick list for several days.

Burglars broke into the store of the Cincinnati Cut Flower Exchange last Sunday night and stole a small amount of cash.

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Wholesale Commission Florists
55 and 57 West 26th Street
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Cambridge, Mass.

A FINELY DEVELOPED ESTATE.

Mr. Thomas Proctor for 18 years superintendent to R. W. Patterson, Esq. "Blantyre," Lenox, Mass. and who in November last became horticultural adviser to W. R. Coe, Esq. "Planting Fields," Oyster Bay, L. I., N. Y. has now been appointed general superintendent.

With the conclusion of the armistice Mr. Coe decided to proceed with the development of his estate which is among the finest on Long Island.

The already large and important collection of rare and choice shrubs, trees and conifers will be supplemented by further importations this spring in anticipation of the plant exclusion order. The entire greenhouse establishment has been thoroughly renovated and restocked and every plant in them bears eloquent testimony to Mr. Proctor's well known cultural skill. The most remarkable feature of Mr. Coe's place at the present time is the very large collection of Camellia Japonica now coming into full bloom in bewildering variety. A large show house has been especially built for the display of these plants. The floor of the house upon which the plants stand is sunk about five feet below the level of the walks in order that the plants may be displayed to the best advantage. In addition to the Camellias in this large show house which is approximately 125 feet long by about 60 feet wide, there are also many handsome specimens of Acacia and Azalea Indica. The plants will be at their best in just about one week's time.

In the recently constructed bay tree storage house are contained some of the handsomest bay trees, buxus and specimen rhododendrons that have ever come to this country. In many respects this is one of the finest places on Long Island. There are many things on this estate to interest the gardener, the landscape artist, the architect and the engineer.

Philadelphia, Pa.—Robert Cole has leased Jacob Becker's greenhouses at 2d and Ludlow streets.

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Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

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Standard Hot Bed Sash, 3 x 6, \$1.50 each. Order for 10 to 24, \$1.45 each; 25 to 50, \$1.40 each. Glass, 50 square feet, 6 x 8, 8 x 10 at \$4.50. 10 x 12, 10 x 14 at \$4.25.
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Iris Purple Lace; a deep pausy purple self, the prominent white haft, laced with purple and a carved shape that gives an appearance of unusual width are distinctive. It proves very attractive to the visitor. 30 in. 30 plants, \$15.00. In Iris time select a seedling for introduction. THE GLEN ROAD IRIS GARDENS, Wellesley Farms, Mass.

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FOR SALE—Used greenhouse material, cypress lumber, pipes and fittings, ventilator, glass 16 x 24, hothead sash; also new and used pots. A. B. PETERSEN, So. Lincoln, Mass.

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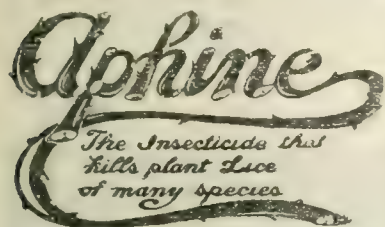
Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

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For mildew, rust and other blights affecting flowers, fruits and vegetables.

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For eel worms, angle worms and other worms working in the soil.

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Bradford, Pa.—C. E. Gunton, addition.

Lima, O.—State Hospital, one house, contemplated.

Albany, Ga.—J. C. Smith Seed Co., range of houses.

Sappington, Mo.—Oscar May, two houses each 32 x 226.

Cincinnati, O.—J. A. Peterson, McHenry road, additions.

Maywood, Ill.—Weiss-Spandikau Co., four houses each 36 x 400.

Pana, Ill.—Adolph N. Neilson Co., three houses each 34 x 200.

Kirkwood, Mo.—W. A. Rowe Floral Co., two houses each 36 x 300.

Woonsocket, R. I.—S. Dilmotte, Aylesworth Ave., one house.

Webster City, Ia.—Curtis Floral Co., alterations and one new house.

Webster Groves, Mo.—Phil Goebel, Jr., three houses each 27 x 150.

Hudson, N. Y.—G. C. Niebergall, conservatory 12 x 60 adjoining flower shop.

Springfield, Ill.—Gaupp Greenhouses, 1107 North 1st street, additions and alterations.

NEW CORPORATIONS.

Louisville, Ky.—Kunzman Floral Co., growers and retailers, capital stock, \$8,000. Incorporators, G. Harry Kunzman, Mary C. and G. Robert Miller.

Chicago, Ill.—Excell Laboratories, insecticides and fungicides, capital stock, \$2,500. Incorporators, Richard J. Jacker, Wm. C. Gray and R. N. Jackson.

New York, N. Y.—Electrical Decorative Flower Co., 1036 Intervale avenue, artificial and electrical flower manufacturers, capital stock, \$5,000. Incorporators, S. Newman, L. Baumkel, W. Lindenberg.

NEWS NOTES.

Grafton, Mass.—Edward L. Farnsworth has leased the greenhouses on the Gordon estate.

Niles Center, Ill.—John Prochaska's greenhouses have been purchased by Albert H. Collatz for rose growing.

Ashtabula, O.—The Ashtabula Greenhouse Co. business and greenhouses have been purchased by P. C. Remick and Archie Ticknor.

Providence, R. I.—Aaron and William Cohn have acquired the greenhouses formerly operated by Ernest Carr, on Lowell avenue.

Milton, Mass.—Jelle Ross has purchased the stock of W. E. Woodward & Son, Saxon, Mass., consisting of over two million gladiolus bulbs.

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Lecturer on Horticulture, Columbia University

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HORTICULTURE

Vol. XXIX

MARCH 29, 1919

No. 13

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LIST OF ADVERTISERS

	Page		Page		Page		Page		Page
Advance Co.....	312	Childs, John	292	Grey & Co., T. J.	303	MacGregor, J.....	312	Randall Flower	305
Allen, J. K.....	308	Lewis.....	292	Gué Bros. Co.	304	McHutchison Co.	301	Shop.....	305
American Bulb		Clarke, D. Sons.	304			Marshall, W. E.		Reed & Keller.....	308
Co.....	303	Coan, J. J.....	308	Haendler, M. P.	300	& Co.....	303	Reidel & Meyer.....	308
American Fores-		Cooke, Geo. H.....	304	Hart, Geo. B.....	306	McKenzie, John.....	305	Reid, Edw.....	306
try Co.....	301	Conard & Jones.....	301	Helstad, H.....	312	Michell, H. F. Co.	302	Reuter, L. J. Co.	292
Anderson, S. A.....	305	Cowee, W. J.....	306	Henderson & Co.		Michigan Cut		Rayner, I. M.....	300
Aphne Mfg. Co.	311	Craig Co., Robt.	291	A.....	306	Flower Ex.....	306	Rice & Co., Je-	
				Hess & Swoboda	305	Millang, Chas.....	308	rome B.....	303
Barrows, H. H.....	292	Danker.....	304	Hews & Co., A.		Muller-Sealey Co.	291	Robinson, Henry	
Bay State Nur-		Dards.....	311	H.....	310	Murray, Samuel.....	304	M. Co.....	308
series.....	292	Davey Tree Ex-		Hill, D. Nursery				Robinson, H. M.	
Bobbink & At-		pert Co.....	290	Co.....	301	National Nursery-		& Co.....	306
kins.....	291	Dreer, H. A.....	292	Hotel Cumber-		man.....	310	Roehrs, J. Co.....	292
Boddington Co.,		Dunlop, John H.....	305	land.....	300	Nicotine Mfg. Co.	312	Roland, Thomas.....	305
Inc., A. T.....	302	Dysart, R.....	308	Howard, W. D.....	300	Niessen, Leo Co.....	306	Rosery, The.....	304
Bolgiano & Son.....	303								
Boston Floral		Edwards Folding		Irwin, R. J.....	303	Old Town Nur-		Schwake, Chas.	
Supply Co.....	308	Box Co.....	306	Johnston Bros.....	304	series.....	300	Co.....	291
Breck, J. & Sons.....	303	Elm City Nur-						Sekenger, Adam.....	304
Breck - Robinson		series.....	292	Kasting, W. F.		Palmer, W. J. &		Sheridan, W. F.....	308
Co.....	291			Co.....	306	Son.....	305	Siebrecht, Geo. C.....	308
Breitmeyers, J.		Farquhar, R. A.		Kelway & Son.....	303	Park Floral Co.....	305	Siggers & Sig-	
Sons.....	304	J. Co.....	303	Kervan Co.....	308	Parshelsky Bros.....	312	gers.....	311
Budlong, J. A.....	306	Fengar, E. W.....	291	Knoel Bros.....	305	Penn the Florist.....	304	Skidelsky, S. S.	
Bunyard, A. T.....	304	Ford, M. C.....	308	Kroeschell Bros.....	312	Pennock, S. S.		& Co.....	303
Burnett Bros.....	303	Ford, W. P.....	308	Kuebler, W. H.....	308	Co.....	281	Smith, Elmer D.	
Burpee, W. A. &		Froment, H. E.....	308	Kottmiller.....	304	Pino-Lyptol		& Co.....	301
Co.....	303					Chemical Co.....	311	Smith, W. & T.	
		Galvin, Thos. F.....	305	Lager & Hurrell	291	Pierce Co., F. O.....	312	Nursery Co.....	301
Carter's Tested		Gasser Co., J. M.....	305	Lemon Oil Co.....	311	Pierson, A. N.....	289	Smith, The Flor-	
Seeds, Inc.....	303	Graham & Son,		Liggit, C. U.....	291	Pierson, E. R.....	289	ist.....	305
Chicago Flower		A.....	305			Pulverized Ma-		Smith & Fettes	
Growers Asso.....	307	Grakelow, Chas.				nure Co.....	311	Co.....	305
		H.....	305					Smyth, Wm. J.....	305

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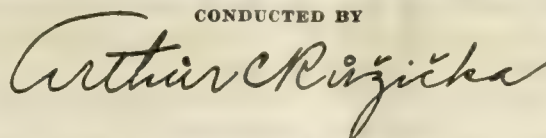
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Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Planting Rose Stock

Will you kindly advise me in the planting of roses? My trade is summer trade entirely and I want the flowers through August and September. Kindly advise me as to best varieties and whether own root or grafted. Would rooted 4-inch pots amount to anything? Any advice would be greatly appreciated.

C. W. S.

If you can arrange to plant the 4-in. stock at once, and can give it very good care from now on I would advise you to plant it rather than plant old plants unless you could buy these somewhere near where you could see them, so that they would be dried off properly for you before they are cut back and shipped to you for planting. If growing plants are cut back without being dried off at all, there will be only very little sap in the plant, as most of it was in the top that was chopped off, and the result will be that the plants will send out a weak sickly growth, hard to push along into anything like health and vigor. As to varieties, you ought to get some Premier and Columbia to start with, also Russell, Francis Scott Key, Stanley, Jonkheer J. L. Mock. These varieties are all very double and make very good summer varieties. For white I would get Double White Killarney, and if you can, get some Kaiserine Aug. Victoria. Cecile Brunner will go good if you have corsage work to do, also Aaron Ward. Ophelia and its sports will be well to have, too, as these are heavy bloomers and will give you plenty of cut flowers. Get grafted plants, as these will come along faster than own root plants would. If you need a red rose, get Hadley. Take great care to have everything just so, plant carefully, give Columbia and Russell and Key plenty of head room, and you will have no trouble to get good roses for the months mentioned. Pinch all buds until the end of May as soon as they show. If you want long stems disbud the growth following the pinch, and if you need medium stems, let them come on, you will then get two or three flowers for every pinch you make. You may need a little heat at night once in a while, a thing you should not overlook if you want first-class stuff, as I imagine there are cool nights where you are, and the temperature should never go below 64 at night, with plenty of air on during the summer months. Now, of course, you will have to keep regular rose temperature. Get the plants in at once though and prepare your soil well.

Mulching

With the coming of the spring days and bright weather, the plants will begin to grow with new energy, and will not only take a lot of feed and water as well, but will need some protection from the sun. This protection, however, is only at the roots, to keep the plants from driving out too fast during the real warm spring days. It may happen that most part of the benches are still well covered with manure, and are not suffering at all. In this case it would be best to mulch only the

edges of the benches, and let the rest go. In most cases, however, it will be necessary to mulch the whole bench in which case give it a good cleaning, then top dress with tankage or some good fertilizer, then apply the manure, making sure that the plants are wet enough at the time. Water the plants as soon as the manure is applied, even though it was put on just before night. Then be sure to keep a little more than the usual amount of air on for the first night or two so that there will not be any danger of burning the leaves with the ammonia escaped from the newly applied manure. See that it is well decayed, as it is best for the plants in this stage, and is ready for their immediate use, and they will use it, too, taking hold of it almost at once. As soon as the plants have used up the largest part of it, see that more is applied at once, as there is no danger of overfeeding, and unless the plants are sickly and ailing, there will not be any danger of overwatering either.

Ventilation

With coal much more expensive than it ever was before the war, growers will be apt to be a little too conservative with the heat, and this must not be overdone with roses if they are to do well. The place to save coal is at the boiler, by watching the ashes, and if they are full of unburned coal, see that proper grates are put in. See that all the pipes are covered with asbestos, or at least with newspapers, covering this with tar paper. Watch the flues, see that all are cleaned as often as the fuel burned demands. Also see that the boiler itself is well covered so that no heat will be lost. See that the dampers work right, and are used as they should be. Then it will not be necessary to close the houses early to conserve the heat. The mild weather we have been having, roses should not be without air all night, and the more air that can be left on the better. Of course enough heat has to be used to keep the temperature up, and it should be about 62 at this time of the year, with the days getting warmer all the time. Be careful in the daytime to watch the thermometers, and see that the houses are put down on time in case a squall comes up, so that they are not chilled. Put steam on if necessary, and put it on before the houses get cold even though it may have to be taken off again in a very short time.

Syringing

Do not neglect to syringe as often as possible, especially if there are any little nests of spider around among the plants. All these nests should be marked, and then when the grower is around with the hose see that they get an extra good dose to make things unhealthy for them. See that the water is directed well under the foliage, as that is where these little pests make their home, and if they are disturbed often enough, and bumped around a little bit they will not be able to put up with it, then the result will be clean plants.

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CONTENTS

Page

ROSE GROWING UNDER GLASS—Planting Rose Stock—Mulching—Ventilation—Syringing—Arthur C. Ruzicka	293
SOCIETY OF AMERICAN FLORISTS—National Publicity Campaign	295
IN MEMORIAM—William J. Stewart.....	295
OBITUARY—William G. Ellwanger.....	295
CLUBS AND SOCIETIES:	
New York Florists' Club—Lancaster County Florists' Association—Florists' Club of Philadelphia—Massachusetts Forestry Association—American Dahlia Society	296-297
THE PLANT EMBARGO MENACE.....	298
SEED TRADE—Removal of French Embargo on Seeds	300
Must Clover Be Inoculated?.....	302
OF INTEREST TO RETAIL FLORISTS:	
New Flower Stores.....	300
Flowers by Telegraph.....	304
The Problem of Fairness and Justice—Henry Penn	305
FLOWER MARKET REPORTS:	
Boston, Chicago, Cincinnati, New York, Philadelphia, Rochester, St. Louis.....	307
LOCAL AND GENERAL NEWS:	
Chicago, Philadelphia, Rochester, Cincinnati.....	309-310
MISCELLANEOUS:	
New Corporations	295
Phlox amoena as a Rockery Plant—Illustration....	297
Publications Received	297-301
Visitors' Register	300
Catalogue Received	301
Testing for Corn Root Rot.....	302
Greenhouses Building or Contemplated.....	311

Landscape men getting business

The landscape men are now getting more or less business. It is chiefly of the repair kind, restoration of estates which because of labor and business conditions of the past three years have suffered from neglect. Then, too, much of the devastation wrought by the extraordinary severe winter of 1917-1918 has not as yet been restored. With the more optimistic sentiment now evident the re-planting of winter-killed trees and shrubs which had been put off last year is now being undertaken. Many conifers and certain herbaceous plants are in short supply, due both to winter-killing and interruption of importations since the war began, and because of advanced prices for this material replacements will run into considerable money. There is a great deal of new residence construction in the hands of architects merely awaiting lower cost of material and more settled labor conditions to be carried out. HORTICULTURE feels that as things are now developing such conditions will exist within a few months.

What shall we do about bulbs?

The time is at hand when it becomes necessary for the trade to know what to do about Holland bulbs. Under the ruling of the Federal Horticultural Board now in force snowdrops, scillas, bulbous irises, chionodoxas and many other species having clean, smooth, round surfaces cannot be admitted. HORTICULTURE avers that the F. H. Board has been rather forcefully aroused to the wrath of the American horticultural trade at its destructive embargo. Secretary Houston has not yet replied to the appeal of the trade against it. A belated reply will not save the situation. Bulb orders must be placed within a few weeks and under present restrictions orders may be placed for only five kinds of bulbs and lily-of-the-valley. All catalogues will have to be revised and hacked down to less than half their present size, eliminating three-quarters of the material now listed. There will be great commercial loss both to growers in Holland and to dealers here, and quite unnecessarily so, but what is even more regrettable is the loss of the artistic element of horticultural and sacrifice of the beautiful in our gardens.

Trees as memorials

"It is a most pertinent suggestion made by Secretary Houston of the Department of Agriculture in his letter to the Governors of the several States, urging the observance of Arbor Day by the planting of trees dedicated to the memory of those of our soldiers who have fallen in the war in which they fought for our ideals of civilization and humanity," says the Boston Post. The sentiment is one which appeals directly and strongly to the heart of our people. It is recognized officially by the American Forestry Association, whose programme of work is widely extensive in the planting of memorial trees for soldiers. It finds local illustration in the action of town and village communities with regard to their parks and public ways. Abroad, the Forestry Association is aiding the governments of Great Britain, France and Belgium in their schemes for repairing the devastation wrought by the Huns. This has been terrible. In France, the accounting now shows about 1,500,000 acres of forest land destroyed by shell fire or cut down for war needs; virtually all of Belgium's forests of timber value felled by the Germans. Great Britain's sacrifice in forests amounted to fully 450,000 acres. To restore and beautify the world for which our boys fought and sacrificed so bravely is their best and most enduring monument.

Garden peas scarce

Certain varieties of garden are in short supply or quite unobtainable. Foreign garden peas have been prohibited for several years and the home crop of several sorts failed or nearly so. Resort must be made to other sorts in some cases of nearly similar character to those which have failed or are in short crop.

The mild winter

Forsythias, Prunuses and numerous other early-flowering shrubs are now in bloom. Nearly all trees and shrubs are responding to the premature spring conditions we are now enjoying in opening flower bud or swelling or opening leaf-buds. There has been no winter-killing during the past winter, the weather has been too mild and the ground has not been frozen deep enough nor long enough to cause damage. Never before have we seen a winter so mild, just as we had never seen any so bad as the previous winter.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

NATIONAL PUBLICITY CAMPAIGN.

A good deal of encouragement is derived from letters such as the following, received from A. Washburn & Sons, of Bloomington, Ill.: "We are pleased to note that the Publicity Committee is trying to raise double the amount of money raised last year, and we are pleased to enclose our cheque for an extra \$25 to help on the amount." And the following, from Frey & Frey, Lincoln, Neb.: "We are enclosing our cheque for \$50 for the National Publicity Campaign. This is for one year only and is in addition to our subscription of \$35 per year for four years." When subscribers to our fund voluntarily increase their subscriptions, it is an endorsement of the value of our campaign.

Some of our members who have our project close at heart are making personal effort among the florists of their respective communities, and are meeting with success. Among them we might mention Albert M. Herr, of Lancaster, Pa., part results of whose efforts appeared in our article two weeks ago. If all our members would take the same interest, it would not

be long before the \$100,000 aimed for would be greatly oversubscribed. Such work is not only of advantage to the campaign, but it establishes a friendly feeling among members of the craft, tending to make each more interested in the other. This feature was freely commented upon at the recent meeting of the Society's Executive Board. Chairman Asmus of the Publicity Finance Committee in referring to a visit he made to Pittsburgh last year, in company with your secretary, said: "We had the pleasure of introducing to each other some of the florists there who were prominent in business and yet had never met. That may be astonishing, but it is an actual fact." More than one trade organization destined to be of use to our industry has been formed as a direct result of campaign activities.

Your secretary plans to start out on a series of trips about the 25th of this month. He will consider it a courtesy if secretaries of clubs and other trade organizations will advise him as to their meeting dates, and whether they would be desirous of having him present at any stated meeting to produce data and give information regarding our publicity work. Such advice would

materially help him in the preparation of his itinerary.

Florists who have not yet subscribed are again urged to consider the advisability of making an early subscription. Regular subscription blanks may be obtained on application to the secretary's office, or may just as well be sent in any manner more convenient. If enthusiasm is needed, just procure copies of the magazines noted in our announcement of last week for it will certainly be found in their columns.

Why wait? Never a more opportune time than now.

The following subscriptions have been received, and are in addition to those previously announced, being annually for four years unless otherwise stated:

A. Lange, Florist, Chicago, Ill., \$100;
I. N. Kramer & Sons, Cedar Rapids, Ia., \$15;
G. M. Thost, De Soto, Mo., \$10; Geo. H. Benedict, Salisbury, Md., \$5; Alex. Millar, Dallas, Tex., \$5; Joseph J. Braun, Stafford Springs, Conn., \$5.
For One Year—Wm. A. Murdock, Titusville, Pa., \$10; Fred. Hoffman, Pawtucket, R. I., \$10.

Second Subscription—A. Washburn & Sons, Bloomington, Ill., \$25.
Total, \$185.00. Previously reported, \$34,105.50. Grand total, \$34,290.50.

JOHN YOUNG, Secy.

1170 Broadway, New York.
March 22nd.

IN MEMORIAM

Wm. J. Stewart

William J. Stewart, our dear and noble friend and leader is no more. We knew for some time that he may leave us any time, but now as he has gone, we can hardly realize that we shall meet him no more. In our thoughts he will be among us to our own last days.

Those who knew him well can never forget him. We have all been benefited in our association with him, and inspired by his love for our noble profession his unbounded enthusiasm and ambition for constant progress in all horticultural matters and undertakings, and his aggressive and fearless championship for our aims and rights. His extensive experience and knowledge were the foundation of his always sound judgment, and when he spoke, he spoke well, and was wise in council. He was a man of great and good influence among his fellow craftsmen, and also a man with a big heart,

that harbored true, deep, genuine friendship and loyalty.

To know him was to love him and I shall always consider it my good fortune that I met and knew him, and a great privilege that I was permitted to be one of his intimate friends. We all keenly feel our loss, but it is just his person that has left us; his council and spirit and the memory of him and his good deeds will be with us as long as we live and after we are gone.

THEODORE WIRTH.

Minneapolis, Minn.

We wish to take this opportunity to express our thanks and appreciation to Mr. Stewart's friends for their many acts of kindness during his last illness and to those who, since our bereavement, have tendered to us their sympathy, through flowers, personal letters and tributes in HORTICULTURE and other florist trade papers.

MRS. W. J. STEWART
and family.

OBITUARY.

William G. Ellwanger

Wm. G. Ellwanger, nurseryman and rose culturist, died March 22d at his home in Rochester, N. Y., aged 77 years. He leaves a wife, one son and six daughters. Mr. Ellwanger was born in Germany and came to this country at the age of 11. After working on farms for a while, he established the nursery business with which he was connected until his death.

NEW CORPORATIONS.

Buffalo, N. Y.—Buffalo Nicotine Co., to manufacture insecticides, capital stock, \$50,000. - Incorporators, T. G. Offers, R. J. Hyatt and P. Ernst.

Verona, N. Y.—Goff Garden Company, general farming and garden business, capital stock, \$350,000. Incorporators, C. A. J. B. and C. E. Goff, Sherrill.

CLUBS AND SOCIETIES

NEW YORK FLORISTS' CLUB.

The annual dinner of the New York Florists' Club, held Saturday evening, March 15, at Hotel Biltmore, was a most enjoyable affair.

There were but few guests from out of town and many of the familiar old faces were also missed.

President Phil. Kessler made a brief address and then introduced in succession, John Harmon, Park Commissioner of Brooklyn, Prof. E. A. White, J. P. Sinnott, R. G. Hollaman and Mrs. Ella Grant Wilson, all of whom spoke appropriately to the occasion.

President Kessler also called on R. G. Hollaman to make the presentation of a silver tea service and tray on behalf of the members of the club, to past President Schenck. Mr. Hollaman extolled Mr. Schenck's work and made mention of the many problems which the latter had had to deal with during the term of office, emphasizing particularly the success of the club's efforts in connection with the Third Liberty Loan, for which Mr. Schenck, as president, was largely responsible.

Past President Schenck in his acknowledgment of the gift, stated that he had done no more than the office of president of the largest club of its kind in the world called for and paid special tribute to those members who had co-operated with him. The scope and work of the club, he stated, is of such a nature as to require the services of the biggest man to be found in the ranks of its members, many of whom he believed should prepare themselves for the office.

With the close of the speech-making the evening was then given over to dancing, during which several members contributed to the entertainment.

The elimination dancing contest was won by Mrs. J. G. Leikens and Chas. Schenck, and Mr. and Mrs. M. L. Glass for first and second honors, respectively. The prizes were two silver vases and a box of candy, donated by President Phillip Kessler. Each lady was also presented with a half pound box of candy, also donated by the president.

Among the out-of-town visitors were Mrs. E. G. Wilson and daughter, F. R. Pierson, R. Vincent, Jr., J. H. Dunlop and George Geraghty. Mr. Dunlop showed a great vase of his new rose, Frank W. Dunlop, a cross of Mrs. Geo. Shawyer and Mrs. Chas. Russell, which attracted much favorable comment.

The decorations of the banquet hall

were notable, the walls being literally hidden from sight by flags, the American predominating.

The head table was splendidly decorated with orchids, *Adiantum farleyense* and roses, contributed by Geo. E. M. Stumpp, who also arranged the decorations. The 25 tables were also lavishly adorned with flowers, donated by various wholesalers. The decoration of these tables was also the complimentary work of Mr. Stumpp.

LANCASTER COUNTY FLORISTS' ASSOCIATION.

March 20th, there was a meeting of the War Garden men of Lancaster held in the Chamber of Commerce Rooms which was addressed by Rufus Herr of Strasburg and Fred Ritchy of Lancaster. We had what was perhaps the most thoroughly co-operative meeting we have had for some time due to the paper by M. J. Brinton on the duty club members owe to this club and the fact that we were bunched together in a small space.

Mr. Brinton's paper was full of that wisdom that comes from a man who speaks only when he has something to say and I hope to be able to give this later on for publication. He spoke of the wonderful flowers of Laddie he saw in Philadelphia exhibited by Mr. Kleinheinz and the fact that he brought one along home with him which was kept in his bedroom for two days, then taken to the greenhouse and kept in the cut flower room where it was in perfect condition up to and including February 11th. The plants that produced these flowers were grown inside all summer, and those of us who know Mr. Kleinheinz know also that they had proper care every minute of the summer and that no insect nor impure air was allowed within fifty feet of these plants.

S. S. Pennock who kindly made his return home from Baltimore via Lancaster in order to attend the Club meeting said that Akehurst has a new seedling the color of Ward, a much freer bloomer and just as good a keeper, that looks good to him, but that it may not be put on the market as a plant proposition. He also gave us an impressive talk on the employment of returned soldiers who were not able to take up ordinary occupations on account of being partly disabled, saying that many of these men could do greenhouse work and would make excellent employees.

T. J. Nolan made a flying trip from

Philadelphia to attend the club meeting returning the same night. He reports business as very satisfactory and always has some pat remarks on matters pertaining to the welfare of the florist.

Short talks were made by B. F. Barr, H. A. Schroyer and A. M. Herr, on the duty club members owe to their club and their fellow members.

The next meeting of the club will be held April 10th at the home of Chas. M. Weaver of Ronks, Pa., where a number of the new Burpee sweet peas are being given a tryout. Members from Lancaster will take the Coatsville car 5.45 p. m. (daylight saving time) inspect the place and listen to a talk by Mr. Kerr of the Burpee Co. on how these peas are produced.

The Ladies Auxilliary held a meeting at the home of Mrs. Lemon Landis, Lancaster, with a good attendance and an interesting programme carried through. They will have a joint meeting with us next month at the Weaver home and after business have a social and refreshment hour to which we are all looking forward.

ALBERT M. HERR.

FLORISTS' CLUB OF PHILADELPHIA.

The coming monthly meeting of the Florists Club of Philadelphia, to be held on the evening of Tuesday, April 1st, 1919, in the Roof Garden of the Hotel Adelphi, offers the best program of the season. An invitation is cordially extended to the women in the trade.

There will be an exhibition of Easter* plants, comprising selections from the best growers in the city. Nothing approaching this display of commercial flowering plants, many of them decorated as featured in the stores at Easter, has ever been seen at a Florist Club meeting. This should be especially interesting to the retail florists, those from out of town can profitably make a 'day of it' finishing their Easter purchases here, and spending the evening at the club.

"Dollars and Cents—How to Make and Save Them," is to be the topic of the evening. The committee have been very fortunate in having secured two professors from the Wharton School of Finance of the University of Pennsylvania. Each the head of his department.

Dr. Edward P. Moxey, Jr., will tell of the importance, and give simple



PHILOX AMOENA AS A ROCKERY PLANT

methods of ascertaining "costs"—a subject vitally interesting to both grower and retailer.

Dr. Herbert W. Hess, Prof. of "Advertising and Salesmanship," will talk to us on these subjects, as applied to the sale of flowers. Very timely, in connection with the National Campaign. Let us give these gentlemen the largest audience of the season.

To wind up a most delightful evening the National Cash Register Company will demonstrate by means of a movie exhibition, showing, in real store scenes, the methods of conducting an up-to-date business and the proper use of the cash register. Other films picture plants growing and producing buds, which open into flowers, before our eyes.

The Dining Club is to have a shad dinner, also in the Roof Garden at 6 p. m. sharp. Price \$2.00. No tickets, pay as you enter. Parties may be made up for separate tables. Bring the ladies. It is necessary that requests for reservations be made to Mr. Hugh Niessen, 12th and Race streets, before noon (12 o'clock) of that day. Send in your name now.

EDMUND A. HARVEY, Pres.
ROBERT KIFT, Sec.

MASSACHUSETTS FORESTRY ASSOCIATION

The Massachusetts Forestry Association has again arranged a tour through the national parks and national forests for the coming summer. The object of these tours is purely educational from the conservation standpoint, and the association makes no profit on these tours. Anyone who is interested in conservation may join the tour whether or not he is a member of the association. The tour in 1917 was very successful, although the party was small, due to the fact that this country had just entered the war. We are encouraged by both the National Park Service and the United States Forest Service in this undertaking, because they realize that the people of the East do not comprehend the importance of these great national reservations. In each case their supervisors give us information that an individual traveling alone would find it difficult to obtain.

HARRIS A. REYNOLDS, Secy.

AMERICAN DAHLIA SOCIETY.

At a meeting of the executive committee of the society, held on Friday,

March 14th, last, it was decided to hold the fall exhibition of the society in the Engineering building, W. 39th street, New York, September 23, 24 and 25, under the auspices of the American Institute.

Schedules of premiums will shortly be available.

JOHN H. PEPPER, Secy.
903 Johnston Bldg., 28th street and Broadway, New York.

PUBLICATIONS RECEIVED.

Massachusetts Horticultural Society, Boston, Mass.—Bulletin No. 1 reports on the future policy of the society and outlook. Bulletin No. 2 treats on the membership and library.

American Peony Society—Bulletin No. 7 of Peony News, edited by the secretary, A. P. Saunders, Clinton, N. Y. The contents include the proceedings of the society for 1918, report of the Cleveland exhibition, June, 1918, and symposium on a general list of peonies.

Port Huron, Mich.—M. D. Watt has purchased the greenhouses of William Murdoch.

THE PLANT EMBARGO MENACE

ANOTHER PROTEST.

Editor HORTICULTURE:

Dear Sir—After reading with care the many arguments for and against Quarantine Order No. 37, I have sent a personal protest to our Michigan congressmen against the Order. I am especially in favor of the suggestions on the circular letter from the Board of Park Commissioners, Minneapolis; the objections published in the National Nurseryman are also particularly well stated.

It may be of interest to your readers to see the following sentences in a recent letter from E. A. Bowles, Esq., the great English amateur, high in office in the Royal Horticultural society. "I read with dismay of your prohibiting the importation of plants in such a way that American gardens will be kept waiting for our best things for a decade at least. Even if in that time your nurseries can propagate the stocks from the few admitted, I think you will with such agitation, do the cause of good gardening far more harm than you will thereby benefit the pecuniary side of your nurseries. The wide spread trials of new plants by amateurs is the way to find new things suitable for fine effects. The nurserymen follow on later and propagate the treasures the amateur has discovered."

Speaking now for myself, this order works a great hardship upon fine flower gardeners and collectors in this country. I sincerely hope to see it either very greatly modified or rescinded altogether and have so expressed myself to Secretary Houston.

I write from an entirely personal standpoint. These opinions are in no way related to possible ones of any horticultural organizations with which I am connected. The proposals looking toward a Chamber of Horticulture for America also interest me greatly; I hope something definite may come of them.

Very truly yours,

LOUISA Y. KING.

Alma, Michigan.

PROHIBITION OF IMPORTS OF PLANTS INTO THE UNITED STATES.

British horticulturists have learned with great surprise and regret that the United States proposes to prohibit, as from June 1 of this year, the importation of many kinds of plants and bulbs. This decision will affect very

seriously those members of the horticultural trade in this country who had made it their business to supply the requirements of America. They have devoted many years to building up this business, and certain of the plants which they raise for this purpose are of slow growth; these nurserymen have, therefore, sunk a considerable amount of capital in it. Now, peremptorily and without warning, it is declared that the American ports are to be closed to their produce. It is to be hoped that vigorous representations will be made by the Government of this country, and that the hardship due to the suddenness of the decision will be urged with the object of securing at least a delay in putting the regulation into practice. It is said—we cannot believe either authoritatively or seriously—that the object of the regulation is to guard the United States against the immigration into that country of pests in the shape of insect or fungous diseases which might do damage to the cultivated plants already growing there. Although each nation must be a law unto itself with respect to its fiscal policy, all nations have an interest in securing that each shall act according to the dictates of common sense and with regard to the teachings of science. We are unable, therefore, to believe that we can be correctly informed with respect to the reasons which have led to the prohibition it is proposed to enforce. For it is quite certain that, whatever other effect it may have, it will not prevent the arrival of pests in America. To prevent this, the absolute exclusion of all vegetable produce would be necessary; for example, the American Bureau of Plant Industry, which has done such admirable work in introducing from all parts of the world plants of economic potentiality, would have to stop its enterprise. So long as it continues, no member of the U. S. A. Federal Board of Horticulture would be able to sleep in his bed without the chronic nightmare of the possible introduction of some pest on the earth attached to the roots of the plants which the Bureau collects from all parts of the world, not excepting British Possessions. It is a grimly ironical fact, on which we have commented more than once, that the plant pathologist, who, in so far as he is concerned with horticulture at all, has as his main duty the discovery of remedies for plant diseases, is so

modest of his own powers in this direction that he is often among the first of those who clamour for restrictions on the free exchange of living commodities. We are of opinion that in adopting this course of action as a means of excluding chance pests the pathologist takes the narrow instead of the broad view. The United Kingdom has suffered much from introduced American plant pests, but it is probable, nay, certain, that the advantage which this country has gained by the introduction of the plants which bore those pests is many hundred times greater than the disadvantages. Decisions arrived at by a State have to be respected, even though they press hardly on other communities; but it may be said without fear of contradiction that if this particular decision is based upon a desire to exclude pests, it is a wrong decision, and one which will press at least as hardly on the horticulturists of the United States as upon those of Europe. We could, therefore, urge our colleagues in America to use all their influence in pressing for an immediate reconsideration of this question.—*From the Gardeners' Chronicle.*

TO ADMIT FLOWER BULBS.

The following is a copy of a letter sent to Secretary Houston of the department of agriculture by M. C. Ebel, secretary of the National Gardeners' Association, relative to Quarantine Bill No. 37.

Hon. David F. Houston, Secretary,
Department of Agriculture, Washington, D. C.:

Sir:—I have just come in possession of a bulletin issued by the Office of Information, U. S. Department of Agriculture, entitled, Amend Plant Quarantine to Admit Flower Bulbs, which states that certain bulbs may be brought in provided that the material in which the bulbs are packed "has been previously sterilized in accordance with methods prescribed by the Federal Horticultural Board."

It continues: "This provision is amendatory to Regulation 3 It was brought to the attention of the board, however that dry earth is the only suitable material known for packing these bulbs, and experts of the Department of Agriculture advised that such material can be cheaply and satisfactorily sterilized"

Now, Mr. Secretary, that the Federal Horticultural Board admits its lack of knowledge and confessed that

ATTENTION.....FLORISTS

“FOR EASTER”

WHOLESALE AND RETAIL

300,000 Cut Easter Lilies

\$15.00 to \$20.00 per hundred

Realizing the problem that is facing the Wholesale and Retail Florists throughout the Country, relative to securing Easter Lilies for their Easter business, and considering that what few Lilies they may be able to obtain will be at such an exorbitant price, namely \$35.00 to \$40.00 per hundred, due to the fact that there is only one-tenth of the usual production on account of the Growers being unable to get sufficient LILY BULBS, you can readily see the seriousness of the LILY SITUATION.

WE, THE ONLY HOUSE IN NEW ENGLAND being able to obtain EASTER LILIES at a reasonable price take pleasure in announcing that we will have a supply of **THREE HUNDRED THOUSAND (300,000) CUT LILIES**, which we are pleased to offer you at an approximate price of **\$15.00 to \$20.00 PER HUNDRED**.

We will also have in stock, as usual, a supply of all seasonable CUT FLOWERS at prevailing market prices. We suggest that you place your order as soon as possible and we assure you that the same will receive our careful and prompt attention, with **QUALITY, SERVICE and RIGHT PRICES**.

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“THE HOUSE OF QUALITY”

it has reversed itself respecting the importation of bulbs, and that "experts of the Department of Agriculture" advised,—though in the past in defending its inconsistent ruling the Federal Horticultural Board claimed that its decision was reached on the best judgment of experts of the Department of Agriculture,—that these bulbs may be safely imported through ordinary precautionary methods, I ask, are this board or the experts on whom it relies really qualified to say what is the best method of sterilization?

Is its ruling on every plant that has been classed under Quarantine Bill No. 37 to be debarred from importation after June first, not open to doubt?

I again recommend for your respectful consideration, that if the measure in your opinion should not be rescinded in its entirety, that its enforcement at least be deferred until the Federal Horticultural Board can investigate the claims of practically the entire horticultural interests of this country of the unreasonableness, unfairness, and unjustifiableness of Quarantine Bill No. 37.

Respectfully yours,

M. C. EBEL, Secy.
National Association of Gardeners.

REMOVAL OF FRENCH EMBARGO ON SEEDS.

A ministerial notice to exporters published March 13, 1919, permits the exportation from France of seeds, except sugar-beet seed, without special authorization when destined to England, Belgium, Italy, and the United States. This information is contained in a cablegram of March 20 from American Consul General Thackara in Paris.

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and Milton Selenka, New York City;
J. Horace McFarland, Harrisburg, Pa.

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ton, Utah; Geo. Collins, Grand Rap-
ids, Mich.; Herman Leitz, New Haven,
Ind.

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iston, Pa.; W. J. Smith, Pittsburgh,
Pa.; S. Mortenson, Southampton, Pa.;
Mr. Johnson, Memphis, Tenn.; John
Farquhar, Boston, Mass.; John F.
Horn, Allentown, Pa.

NEWS NOTES.

Far Hills, N. J.—H. F. Kerr, of Sum-
mit, has purchased the greenhouses of
the Grant B. Schley estate.

Libertyville Ill.—Gust Leinhardt and
Henry Mesenbrink have purchased the
greenhouses of the Meredith Flower
& Vegetable Co.

NEW FLOWER STORES.

Galesburg Ill.—I. L. Pillsbury, Ar-
cade building.

Worcester, Mass.—Sam Fierer, 21
Pleasant street.

Chelsea, Mass.—Martin F. Lally, 20
Washington avenue.

Newark, N. J.—Victoris Florist, 66
Springfield avenue.

Charlotte, Mich.—Jos. Gansbiller,
Ferndale Greenhouses.

Cleveland, Ohio.—A. J. Saywell,
East 90th street and Superior avenue.

Philadelphia, Pa. — Thomas Job,
School Lane, near Germantown ave-
nue.

Onion sets took a bad slump last week, especially in red and yellow. So many growers had held back their crop for higher prices and refused even good offers last fall, that when their stock was placed on South Water street, Chicago, the market broke completely. Red and yellow sets are bringing only one dollar per bushel and white ones \$2.50. Seed stores are making a special feature of onion sets, retailing at 15c. per pound, while department stores are having special sales at a fraction of that amount.

Chrysanthemum Cuttings

Major Bonnaffon, Chas. Razer, Oconto,
Pacific Supreme and Chrysolora, ready
April 1st, \$2.50 per hundred.
Also, Extra Strong Cuttings of Car-
nation Matchless, \$20.00 per thousand.

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PUBLICATIONS RECEIVED.

We have just received a copy of the American Rose Annual for 1919, with the compliments of the editor, J. Horace McFarland. Rather an international than an American book is this, the 4th volume, for it presents the after-war rose situation in France, Luxemburg, Italy, England, Australia, Bermuda and Canada in entertaining letters from amateur and commercial rose growers.

Silver Wedding Roses is a delightful article on how to have hardy roses about the home without discouragement, written by the talented author of "The Garden of a Commuter's Wife."

Fragrant Roses by Dr. W. Van Fleet, tells of the rose-attar possibilities of America, and informs the amateur of the sweetest flowers. The same author's Rose-Breeding Notes for 1918 bring us up-to-date in the effort proceeding to obtain better hardy ever-blooming roses in and for America.

A Rose Enthusiast and His Garden is the tell-how story of a great architect (George R. Mann), who confesses that he was converted from golf to roses, gives intimate details and bloom records, and says his rose garden takes "one hour a week in actual labor, and maybe two hours a day in the pursuit of happiness!"

There are several lists of varieties, with carefully tabulated statements of variety experience, which will help the amateur avoid waste. Winter Work with Roses provides a new and fascinating field of rose-pleasure, and there is another Back-Yard Record of Rose Bloom.

The Northern Cherokee Rose will surprise lovers of shrub roses, and the account of several magnificent hardy yellow shrub roses received from China through the late Frank N. Meyer is illustrated with three beautiful plates. Information is given of a novel method of rose-propagation reported by the experts of the United States Department of Agriculture.

The Passing of a Great Rosarian tells of the life of Admiral Aaron Ward, the notable character who has influenced rose-growing on two continents and held up the honor of the nation all over the world.

A double-size frontispiece in full color shows E. G. Hill's great new Rose Premier, and the French and English hybridizers report their newest rose productions blooming during the closing days of the war. The new Madame Butterfly also makes her rose-bow.

Wayside Roses in France is a charming little bit of extra-aviation

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experience of the war told by Capt. George C. Thomas, Jr., and The Roses of an English Labor Leader is a surprising contribution.

Roses in Italy, by the Countess Guilio Senni, will be found not only good reading, but most suggestive for American growers; and Roses in Australia, by George W. Walls, with Roses in Bermuda by Mrs. F. St. G. Caulfield, show that the Queen of Flowers reigns around the world. Harold W. Nelles shows that he is Riding a Rose Hobby in Montreal.

Save and Use the Roses is a plan that ought to bring smiles to many sad faces, and it fits in with Turning Roses into Red Cross Cash, a Canadian experience which netted \$1,960 last year for good work.

Several wise commercial growers discuss The Rose Cut-Flower Situation of 1918 (S. S. Pennock), combine Experience and Prophecy (W. R. Pierson), and tell of Roses Cut and Roses Growing (Charles H. Totty). Mr. Totty also discusses the newer roses.

Where Are Our Roses Coming From? is the Editor's study of an American shortage of three million

roses, with certain very important suggestions, accurate information as to sources, and a letter from Dr. C. L. Marlatt, of the Federal Horticultural Board, telling How to Import New Roses after the plant quarantine becomes effective June 1, 1919.

There are poems, many other helpful articles, the closely accurate list of roses originated in America (revised to March 10, 1919), a timely report on a bad rose disease, and twelve pages including twenty-nine helpful rose notes. The doings and rules of the American Rose Society are briefly set forth, and a complete index makes the mass of information easily accessible.

This cloth-bound 1919 Annual (184 pages, 11 full-page plates in color and sepia, uniform with preceding volumes), is sent to all paid members of the American Rose Society and to any rose-loving person who forwards \$2 for annual membership to E. A. White, Secretary, Ithaca, N. Y.

CATALOGUE RECEIVED.

Wayside Gardens Co., Mentor, O.—Spring, 1919, trade list of hardy plants and shrubs.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, F. W. Bolgiano, Washington, D. C.; First Vice-President, Wm. G. Scarlett, Baltimore, Md.; Second Vice-President, David Burpee, Philadelphia, Pa.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

Must Clover Be Inoculated?

So much has been written emphasizing the importance of inoculating alfalfa, sweet clover and soybeans, that the question is often asked, "Must the common clovers be inoculated?" or "Will inoculation do ordinary clover any good?"

Inoculation is practiced for legume crops only and supplies the particular bacteria that live on the roots of the plants, enabling them to feed on the nitrogen of the air as well as that in the soil. Without bacteria the legumes cannot use nitrogen from the air, but will exhaust the soil the same as grasses or other crops.

According to Wm. A. Albrecht, of the University of Missouri College of Agriculture, in order to have the proper bacteria present when a legume is grown on the soil for the first time, these bacteria must be introduced as inoculation. Such is the common practice for alfalfa, soybeans and sweet clover. The seed may carry a few bacteria to the field, but inoculation from such will occur only in spots. Wind, water, cultivation and other chance agencies may spread the inoculation from these spots, but such a method of infecting the field is too slow. When once introduced and established in a soil the bacteria will often live over from one crop to the next legume crop on which they can develop. As a result, a legume crop reseeded on a soil after six or eight years of cropping by non-legumes will need no special inoculation. With a sweet soil and other favorable conditions it is difficult to say just how long the legume bacteria will live in the soil. Experience indicates, however, that for a legume repeated once in a rotation, or even in two crop rotations, inoculation is necessary.

For the common clovers, inoculation is usually not necessary since the bacteria for these are widely distributed and are present in many different soils. This is due to the fact that there are several different varieties of true clovers, all of which nourish the same kind of bacteria on their roots. Of the true clovers which will inoculate each other, there are five varieties generally grown and known by many confusing names. In

the order of their importance they are, (1) Common or red clover, also called June or broad-leaved clover, (2) Mammoth clover, often known as Mammoth red, sapling or peavine clover, (3) Alsike or Swedish clover, (4) White or Dutch clover, and (5) Crimson clover, also named scarlet or carnation clover and commonly grown in the south. The fact that all these have the same bacteria and will inoculate each other, has done much to spread their bacteria. Almost all soils in the cornbelt have either grown some of these clovers or by some other chance have become well inoculated for these crops.

Distribution of the clover bacteria is also due to the fact that many clovers are native to the United States. Some sixty kinds, both cultivated and wild, have been growing for many years. The yellow, or hop clover growing in dry, sandy or gravelly soils, and the rabbit foot or stone clover are common weeds which have spread the bacteria that will inoculate any of the other true clovers. Then two, the bacteria have been distributed by the use of manure made from clover hays. Clover hay carries with it dust containing the bacteria and may inoculate the field.

With some clovers growing for years as native weeds, others being widely cultivated and distributed and all these inoculating each other there is ample reason why the clover bacteria have been widely spread and most soils have become inoculated for the true clovers. However, this does not include our clover, Japan clover and sweet clover, which have a different kind of bacteria. In seeding the true clovers the soil is often already inoculated and the special treatment is not needed for such crops as red, alsike and mammoth clovers, especially when seeded in sweet soils in districts growing these legumes. There are some soils on which inoculation

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is needed for these clovers, but they are the exception rather than the rule.

TESTING FOR CORN ROOT ROT

One reason for poor yields in many Ohio cornfields is a disease known as the corn root rot says Professor W. G. Stover, of the Ohio State University. In this disease some or all of the roots are rotted off by a mold or fungus. The fungus also grows up into the stalk and even into the shank and ear. The results of these attacks are seen in dwarfed plants which may die early, in down or broken stalks, and in barren stalks and nubbins.

Knowledge of the disease is not yet complete but studies at the Indiana Agricultural Experiment Station seem to show that seed corn may carry the disease. Diseased grains may fail to germinate or may give weak plants which soon die. In either case the result is an uneven stand of corn in the field. It also appears that diseased grains may be detected during the germination test since they often rot or mold in the germinator.

This fact emphasizes the importance of ear-testing all corn to be used for seed and the selection of ears which give strong vigorous plants. If any of the grains rot or mold in the germinator, fail to germinate, or give only weak plants, the ears from which they came should be rejected.

In order to reduce the losses from this disease, crop rotation is also necessary, since the parasite may live over winter on the old stalks in the field. Another important measure is the selection of seed corn on the stalk in September.

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St.

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HARRY I. RANDALL, Proprietor.
Member Florists' Telegraph Delivery

THE PROBLEM OF FAIRNESS AND JUSTICE.

There are at the present time many of our progressive florists who have felt the benefit of the use of the slogan "Say it with Flowers" and who can see the cumulative value by its continued usage where every one feels the advantage by the continuity of its use.

Now there has come to me innumerable letters pertaining to the effect of its use by various members who innocently have been using the slogan in this manner "Say it with Brown's Flowers" (or any other name could be used for illustration) but it would be better for all concerned and the good of the slogan would be kept by just utilizing the words "Say it with Flowers" in our regular set form, leaving out the firm name in this connection. This will eventually keep its prestige up to one hundred per cent advertising value, whereas using it in connection with a firm name it loses its implied action and eventually would be dropped. Now let us in fairness and justice to the craft generally, for the future stick to the slogan as it is. But if needs be in reading texts of your advertisements mention the firm name as often as necessary. But for national results please let us not make any changes.

This is purely a request and those that can do so will merit their own reward.

This is written in a spirit of fairness to all and not intended as a criticism to those who have used it otherwise.

The trade publications are giving this publicity to the article with the hope that all may join in the good that it can create by proper usage.

Use the slogan "Say it with Flowers" without reconstruction and all will feel its benefit. HENRY PENN,
Chairman National Publicity Com.

Quality and Reliability
WARBURTON
FALL RIVER, MASS.
Deliveries of Flowers and Plants
in FALL RIVER and contiguous
territory.

EAST ORANGE, N. J.
SMITH, The Florist
We deliver by automobile in East, West
and South Orange, also Glen Ridge, Mont-
clair, Bloomfield, Newark and New York.

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The Far-Famed Flowers of
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Delivered on mail or telegraph order for
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Efficient Delivery
Service
ALL BOSTON SUBURBS
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Everything in Flowers
Broad Street at Cumberland

The Park Floral Co.
B. E. GILLIS, President.
E. P. NEIMAN, Secretary.
Member Florists' Telegraph Delivery
DENVER, COLORADO



ROSE PLANTS

OPHELIA DOUBLE WHITE KILLARNEY

2½-inch pots, \$90.00 per 1000. Fine stock, cuttings made from two and three eye cuttings.

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1201 Race Street, PHILADELPHIA, PA.

Asparagus Plumosus Nanus

New Crop, Greenhouse Grown Seed.
Per 100, 45c.; per 1000, \$3.50.

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Home grown. Saved by florists who know their business. Ready now.

GIGANTEA ROSEA. Seed saved from plants with large flower trusses and a beautiful shade of pink. Trade pkt., (about 1,200 seeds), \$1.50.

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Ready for Shipment Now

Per 100 Per 1000 Per 100 Per 1000
RICHMOND...\$10.00 \$90.00 MILADY.....\$10.00 \$90.00

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and all Seasonable Varieties of Cut Flowers

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Manufactured by

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10,000...\$5.25 50,000...\$20.75 Sample free.
For sale by dealers.

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RICHMOND, IND.

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WHOLESALE COMMISSION FLORISTS

Consignments Solicited

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2 Winthrop Square and 32 Otis Street, BOSTON, MASS.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Mar. 28		ST. LOUIS Mar. 14		PHILA. Mar. 14	
Roses						
Am Beauty, Special.....	75.00	to 100.00	50.00	to 60.00	60.00	to 75.00
“ “ Fancy and Extra.....	50.00	to 75.00	30.00	to 40.00	40.00	to 45.00
“ “ No. 1 and culls.....	20.00	to 30.00	12.00	to 20.00	20.00	to 30.00
Russell.....	10.00	to 15.00	5.00	to 25.00	10.00	to 30.00
Hadley.....	10.00	to 15.00	5.00	to 10.00	10.00	to 30.00
Mock, Key.....	4.00	to 12.00	5.00	to 25.00	.....	to
Arenberg, Hoosier Beauty.....	4.00	to 12.00	10.00	to 15.00	6.00	to 20.00
Ward, Hillingdon.....	4.00	to 12.00	4.00	to 6.00	.....	to
Killarney, Key, Taft.....	4.00	to 12.00	4.00	to 10.00	4.00	to 12.00
Ophelia, Sunburst.....	4.00	to 12.00	3.00	to 10.00	5.00	to 15.00
Carnations	4.00	to 6.00	3.00	to 5.00	5.00	to 6.00
Cattleyas.....	50.00	to 75.00	50.00	to 75.00	40.00	to 50.00
Lilies, Longiflorum.....	20.00	to 25.00	15.00	to 25.00	20.00	to 25.00
Lilies, Speciosum.....	8.00	to 20.00	.....	to .....	.....	to
Callas.....	20.00	to 25.00	15.00	to 20.00	10.00	to 20.00
Freesia.....	4.00	to 6.00	3.00	to 5.00	3.00	to 6.00
Roman Hyacinths.....	3.00	to 4.00	3.00	to 6.00	2.00	to 4.00
Stevia.....	.....	to .....	.....	to .....	.....	to
Marguerites.....	1.00	to 4.00	1.50	to 2.00	.50	to 1.00
Lily of the Valley.....	4.00	to 6.00	6.00	to 8.00	.....	to
Snappedragon.....	8.00	to 12.00	4.00	to 6.00	6.00	to 15.00
Violets.....	.35	to 1.00	.30	to .40	.50	to 1.00
Narcissus.....	3.00	to 4.00	3.00	to 5.00	6.00	to 8.00
Calendula.....	2.00	to 4.00	8.00	to 3.00	4.00	to 6.00
Sweet Peas.....	1.00	to 3.00	.40	to 1.00	1.00	to 3.00
Gardenias.....	.....	to 100.00	.....	to	30.00	to 40.00
Adiantum.....	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50
Smilax.....	.....	to 35.00	20.00	to 25.00	20.00	to 25.00
Asparagus Plumosus, & Spreng. (100 Bchs.).....	35.00	to 50.00	35.00	to 125.00	50.00	to 75.00

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

Wholesale Growers of Cut Flowers

ROSES, CARNATIONS

AND ALL OTHER SEASONABLE STOCK

Shipping orders have most careful attention always

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CUT FLOWER BOXES

EDWARDS FOLDING BOX CO

MANUFACTURERS

PHILADELPHIA, PA.

Flower Market Reports

Trade has fallen off considerably the past week and although prices continue about the same this is due no doubt to the tightening up of shipments. Roses have decreased considerably in supply but the stock received is of excellent quality and there is a fairly good demand for American Beauties. Carnations are also of good quality and while the demand is not heavy holds up well. Lilies are the one scarce article, due no doubt to the approach of Easter and prices have advanced somewhat in consequence. Violets are being disposed of more readily than for some time past and sweet peas also find many purchasers. Lily of the valley has grown more plentiful and the quality is greatly improved. Bulbous stock is still scarce.

The market is very erratic this week. The warm spring weather and bright sunshine are bringing the stock forward so rapidly that it is accumulating faster than the retailers can use it. Some days the demand more nearly equals the supply and counters and ice boxes are fairly empty at night, but on others the street fakirs are the only resource of the wholesale houses. There is a good shipping trade so far and much high grade stock is used up in this way. Of roses there is everything to please the most fastidious customers, and of carnations the supply is of the best the market has had this season. Sweet peas are here in quantity and quality, ranging from the short stems to the extra long ones. Of miscellaneous stock there is also a large amount to choose from.

The market is well supplied with stock. Last week receipts became heavy and for the first time since last autumn was there any considerable amount of stock left over after the close of the day's business. While demand is holding up, still prices are dropping very reluctantly after the protracted period of high prices. Roses may again be classed as plentiful. Carnations are in a good supply, also sweet peas. Some excellent lilies, callas and rubrums are coming into the market. Bulbous stock is fairly plentiful. The principal items are daffodils, jonquils, freesia and narcissus poeticus. The first of the Darwin tulips of the season came in

The Chicago Flower Growers Association

WHOLESALE GROWERS of CUT FLOWERS and PLANTS

L. D. Phone Randolph 631

182 N. Wabash Avenue, CHICAGO

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Mar. 24		CHICAGO Mar. 24		BUFFALO Mar. 24		PITTSBURG Mar. 24	
Roses								
Am. Beauty, Special	60.00	to 75.00	50.00	to 75.00	60.00	to 75.00	60.00	to 75.00
" " Fancy and Extra	35.00	to 50.00	40.00	to 50.00	40.00	to 50.00	35.00	to 45.00
" " No. 1 and culls	10.00	to 25.00	15.00	to 25.00	10.00	to 20.00	.....	to 18.00
Russell	6.00	to 20.00	6.00	to 25.00	6.00	to 30.00	8.00	to 30.00
Hadley	6.00	to 20.00	15.00	to 25.00	6.00	to 20.00	.....	to 20.00
Euler, Mock	15.00	to 25.00	15.00	to 25.00	5.00	to 8.00	8.00	to 25.00
Arenberg, Hoosier Beauty	4.00	to 15.00	8.00	to 20.00	6.00	to 15.00	.....	to 20.00
Ward, Hillingdon	6.00	to 15.00	6.00	to 20.00	4.00	to 6.00	6.00	to 18.00
Killarney, Key, Taft	6.00	to 15.00	6.00	to 15.00	5.00	to 18.00	6.00	to 15.00
Ophelia, Sunburst	6.00	to 20.00	4.00	to 20.00	6.00	to 12.00	8.00	to 25.00
Carnations	4.00	to 8.00	2.00	to 4.00	2.00	to 5.00	4.00	to 6.00
Cattleyas	5.00	to 25.00	35.00	to 50.00	50.00	to 60.00	50.00	to 60.00
Lilies, Longiflorum	15.00	to 30.00	10.00	to 15.00	15.00	to 20.00	15.00	to 25.00
Lilies, Speciosum	6.00	to 10.00	.....	to 10.00	5.00	to 10.00	.....	to 10.00
Callas	12.50	to 15.00	10.00	to 15.00	15.00	to 25.00	12.00	to 20.00
Freesia	4.00	to 6.00	2.00	to 5.00	3.00	to 5.00	3.00	to 5.00
Roman Hyacinths	.....	to 2.00	2.00	to 4.00	4.00	to 6.00	3.00	to 5.00
Stevia	.....	to 2.00	.....	to 2.00	.....	to 2.00	.....	to 2.00
Marguerites	.....	to 1.00	1.00	to 1.50	.....	to 2.00	1.00	to 3.00
Lily of the Valley	6.00	to 8.00	5.00	to 6.00	8.00	to 10.00	.....	to 6.00
Snapdragon	6.00	to 10.00	8.00	to 15.00	8.00	to 10.00	6.00	to 8.00
Violets	1.00	to 2.00	.50	to 1.00	.75	to 1.00	.75	to 1.00
Narcissus	4.00	to 5.00	3.00	to 4.00	4.00	to 5.00	4.00	to 6.00
Calendula	4.00	to 5.00	3.00	to 4.00	3.00	to 5.00	.....	to 5.00
Sweet Peas	1.00	to 2.00	.50	to 2.00	.75	to 2.00	.75	to 2.00
Gardenias	.....	to 25.00	15.00	to 30.00	15.00	to 20.00	.....	to 20.00
Adiantum	1.00	to 2.00	1.00	to 1.50	1.00	to 2.00	.....	to 2.00
Smilax	20.00	to 25.00	20.00	to 25.00	20.00	to 25.00	.....	to 25.00
Asparagus Plu. & Spreu. (100 Bhs.)	50.00	to 75.00	25.00	to 75.00	35.00	to 50.00	25.00	to 60.00

last week. They found a good market. Other offerings are snapdragon, pansies, mignonette, wallflower and forget-me-not.

The end of last week found the market generally cleaned up on roses and carnations without any marked changes in price. This week had a rather good start but it was due to dealers stocking up and not to any spurt in business. The parade of the 27th Division, Tuesday, practically shut off business in the wholesale district after 10 o'clock, and many of the retail stores were closed so that much stock was carried over, and that, with freer shipments of nearly all kinds of stock and a light demand, finds the market over supplied and quotations variable. American Beauties and the long stemmed roses move the slowest, but lower prices prevail throughout the list with very few exceptions. Carnations have suffered a considerable decline in price. Tulips have met with a good sale right up to Monday, but they too are not going at all well. Golden Spurs and Victorias are not in large supply, so that up to this time there has been no accumulations and little difference in price. The demand for cattleyas is limited and there is considerable stock waiting sale. Longiflorums and callas are in good supply and not going very briskly—price steady. Other bulbous stock is more in evidence with the fine weather we are having. Asparagus and smilax are moving rather slowly.

Conditions the PHILADELPHIA past week in the cut-flower market remained steady and about as last reported. Supplies continued to increase with the lengthening days, the fine weather and the advent of spring. Quality of the products was also of a high order and the demand held up fairly well. American Beauty roses a little more plentiful and freely offered at about half the fancy prices they brought a month ago. Other roses held their own fairly well. Carnations continue very good and hold their own as to quotations. Cattleyas still freely offered but the crop is past its flush now and the market can take reasonable care of all that is offered.

Seasonable stock is ROCHESTER in good supply but demand has lessened somewhat, possibly due to the Lenten season. Roses and bulbous stock are in adequate supply, while carnations are not quite so plentiful. Violets and sweet peas are in good demand. Some fine freesias, calendulas, forgetmenots and primulas are seen. Lily of the valley is also good and selling well. Lilies and pussy willows are in fair supply, also calla lilies. There is a good demand for potted plants, with a large selection.

The warm weather has ST. LOUIS brought in all varieties of stock with reduction in price of roses, carnations and sweet peas. Greens and bulbous stock are selling fine.

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Wholesale Commission Florist
Choice Cut Flowers
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Call and inspect the Best Establishment
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Fresh Cut Decorative Evergreens.
Highest Standard of Quality. Largest
Stock in America. Write for Illustrated
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Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

M. C. FORD
121 West 28th St., NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone 3870 Farragut.



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ROSES! I WANT ROSES!
Have a demand for more than I can supply. Rose Growers Call or Write.
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116 West 28th Street, NEW YORK
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HENRY M. ROBINSON CO. OF NEW YORK
WHOLESALE FLORISTS
55-57 West 26th Street
Telephones, 13-5410 Madison Square **Consignments Solicited**
MAURICE L. GLASS, Treasurer

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Part of Week ending Mar. 22 1918		First Part of Week beginning Mar. 24 1918	
American Beauty, Special	25.00	to 50.00	25.00	to 40.00
" " Fancy and Extra	10.00	to 25.00	10.00	to 25.00
" " No. 1 and culls	3.00	to 10.00	3.00	to 8.00
Russell	4.00	to 25.00	4.00	to 20.00
Hadley	4.00	to 50.00	4.00	to 40.00
Euler, Mock, Key	3.00	to 15.00	3.00	to 15.00
Arenberg, Hoosier Beauty	2.00	to 10.00	2.00	to 10.00
Ward, Hillingdon	2.00	to 10.00	2.00	to 10.00
Killarney, Taft	2.00	to 8.00	2.00	to 6.00
Ophelia, Sunburst	2.00	to 18.00	2.00	to 12.00
Carnations	2.00	to 6.00	2.00	to 6.00

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Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
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Decorative Glassware, Growers and
Florists' Requisites

Boston Floral Supply Co.
347-357 Cambridge St., Boston
SHOW ROOMS, 15 Otis Street and
96 Arch Street
Headquarters for
CYCAS, BASKETS, WIRE DESIGNS
and WAX FLOWERS

QUALITY QUANTITY
CHARLES MILLANG
Wholesale Florist
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ATTENTION VARIETY

ROBERT DYSART
CERTIFIED PUBLIC ACCOUNTANT
Simple methods of correct accounting
especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
40 STATE STREET . . BOSTON
Telephone Main 55

When writing Advertisers kindly mention Horticulture

Local and General News

CHICAGO.

A. Miller, president of the American Bulb Co., is in Cleveland, O., on business this week.

Robert Miller, known as the largest grower in the state of Utah, is here from Farmington where he is calling upon the trade and enjoying a little vacation. He will visit the East before he returns.

D. D. P. Roy reports his wife as steadily improving and expects her home from the hospital soon.

Geo. Collins, foreman for Henry Smith of Grand Rapids, Mich., spent several days here with relatives and friends.

The spring trade seems to be fairly under way at the retail seed counters, and from present indications a good season is just ahead. Those who were looking for a backward spring on account of the open winter are not having their fears realized so far.

The tulips in the gardens have pushed their leaves up several inches above ground, and the grass is green in the parks which are well filled with people each warm day. The usual articles on gardening are occupying considerable space in the local papers, and though winning the war is no longer an inducement, the garden for the garden's sake seems to be sufficient incentive to plant.

Philip Foley, president of the Foley Greenhouse Manuf. Co., reports many inquiries for prices, etc., on new houses and expects business to be back to normal in the near future. He will open an office in the new State-Lake building now nearing completion in the heart of the down-town district, where out-of-town visitors can more easily reach him. Among his newest orders is one from E. H. Mazey of Minneapolis, a former customer, for an addition to his present range.

The Chicago Florists' Club will give its members a treat at its next meeting, April 10th. T. Waters, chairman of the Good of the Club Committee, has arranged for a talk on salesmanship and costs by Hodgson Jolly, a very interesting speaker. A large attendance is expected.

Speaking of the sweet peas now coming into the market, Allie Zech, of Zech & Mann, says that he never has handled finer ones at this season, the stock being fully equal in size,

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Part of Week ending Mar. 22 1918		First Part of Week beginning Mar. 24 1918	
Cattleyas.....	\$0.00	to 50.00	10.00	to 50.00
Lilies, Longiflorum.....	10.00	to 15.00	10.00	to 10.00
Lilies, Speciosum.....	.....	to .....	.....	to
Callas.....	8.00	to 25.00	8.00	to 25.00
Freesia.....	1.00	to 3.00	1.00	to 2.00
Roman Hyacinths.....	1.00	to 2.00	1.00	to 3.00
Stevia.....	.....	to .....	.....	to
Marguerites.....	1.50	to 4.00	1.00	to 4.00
Lily of the Valley.....	1.00	to 4.00	8.00	to 4.00
Snappedragon.....	6.00	to 16.00	8.00	to 16.00
Violets.....	.20	to .50	.25	to .50
Narcissus.....	3.00	to 6.00	3.00	to 5.00
Calendula.....	1.00	to 4.00	1.00	to 4.00
Sweet Peas.....	1.00	to 4.00	1.00	to 3.00
Gardenias.....	12.00	to 35.00	12.00	to 35.00
Adiantum.....	.....	to 1.00	.....	to 1.00
Smilax.....	15.00	to 25.00	15.00	to 25.00
Asparagus Plumosus, & Spreng (100 bunches).....	15.00	to 25.00	15.00	to 25.00

color and length of stem to the spring blooming peas. Mrs. Zech is gaining rapidly and it is hoped will be able to leave the hospital soon.

The largest grower of bulbous stock in this vicinity is Sam Pearse. A glance around for Easter stock here shows 60,000 cold storage 1917 importation, giganteum lilies, which while not very heavily budded are looking fine, considering how long they have been in storage. There are also a few hundred 1918 Bermuda lilies which are now yielding a good cut. Of tulips Mr. Pearse is now cutting the last of 150,000. These came across in five lots, of which two lots were almost a complete failure, a fact which adds heavily to the costs and for which the long time used in transportation is mainly to blame. The good prices bulbous flowers have sold for during this season have helped to compensate for the heavy losses in bulbs. Four thousand Godfrey calla lilies were tried here on account of the shortage of Japan lilies and the venture was a success in quality and numbers.

Of the narcissus forced 20,000 were Emperor, 25,000 Golden Spur and 10,000 assorted, most of which did well. Of the 65,000 iris forced here 25,000 tingitana are about through blooming, 20,000 filifolia are just coming into bloom and 20,000 Spanish iris will come later. While prices of bulbs have been high and losses heavy the season is regarded as a good one.

It seems to the writer there is no longer a question of the possibility of producing bulbs in this country commercially for Peter Pearson has proved that it can be done, and he now has half a million tulip bulbs and several thousand narcissus, all of which he has grown himself. When he first announced his intention of growing bulbs he was discouraged by his friends in the trade, but his ex-

periments on growing in the field for propagating purposes are proving very successful. Of the 10,000 tulip bulbs of his own growing, forced this season, nearly all came with fine long stems and perfect flowers, while the 30,000 imported ones produced smaller flowers on shorter stems. His 5,000 narcissus, mostly Sir Watkins and Emperor grown by himself had the largest blooms and brought the highest prices in the market.

PHILADELPHIA.

Frederic Carey of Kennett Square looked in on us last week and seems to be one of the carnation growers of that section with a cheerful outlook for the future. Among other things we learned on good authority is that he has placed a contract with the Lord & Burnham Co. for two new houses each 28 by 125 ft.

Alfred M. Campbell, the energetic wholesaler and grower, has added a new string to his bow, having leased the Witmer greenhouses at Hatboro where he will grow carnations and a variety of other flowers. Mr. Lauterer, late of the Heacock establishment, is in charge and is enthusiastic over the general outlook. He seems to have the right idea for success: win out or break a leg.

August Wanjek, our old-time friend at 26th and Lehigh, is going to branch out a little this spring. In addition to running his well established Philadelphia business in Flowers and Decorations he has bought a piece of land on Moreland Ave., adjoining Willow Grove Park and is now busy establishing a house there. He will cater to all out doors in trees, shrubs

PALMS TO HIRE: For decorations at reasonable rates. Many will find it cheaper and better to avail themselves of our stocks rather than buying outright. Write, phone or wire. **AUGUST WANJEK**, 2613 Lehigh Ave., Philadelphia. Specialist. Flowers and Decorations. Auto Service.

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Cambridge, Mass.

and plants; and from the multitudes who go to that popular summer resort he ought to reap a golden harvest.

Dennis Connor of the Lord & Burnham Co., has the true word for the boys who are in doubt about present cost. He says what's the difference, you'll soon get it all back. Which means that the prices of flowers and plants will stay up as long as the prices of building materials and labor, and by the time either drops you will be ready to meet new conditions. Meantime the word is: go to it and get it while the getting is good. He reports that new contracts are flowing into their Philadelphia office in the Land Title Building in very satisfactory shape.

Charles Pennock who has recently returned from service at the front in France seems to have found time to keep his eyes open for other things besides bombs and boches, judging from an interesting story of his visit to M. Turbot's rose nursery near Orleans, published in the 1919 Rose Annual. Mr. McFarland the editor of this most wonderful, beautiful and educative book is certainly a most up-to-date personage to get a rose story so quickly out of war-torn France. And from the son of an ex-president of the Rose Society and like his dad a keen lover of roses, makes it all the more welcome.

ROCHESTER, N. Y.

Priv. Charlie Gow, of H. E. Wilson's, who saw active service in France, has been honorably discharged from the service.

J. Horace McFarland of Harrisburg, Pa., was the guest of Calvin C. Laney, superintendent of Rochester parks, last week.

CINCINNATI.

-T.-Ben George, Jr., is home after his period of service in the army. He received his honorable discharge last week.

Chas. C. Miller, of Covington, Ky., passed away on Sunday. His wife has the sympathy of her friends in her bereavement.

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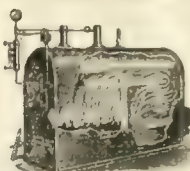
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HORTICULTURE

Vol. XXIX

APRIL 5, 1919

No. 14

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The Glossary This is an analysis of all technical terms that are used in the work and in similar works. It comprises botanical and horticultural terms with brief definitions.

Translation and Pronunciation of Latin Names In Volume I is inserted a list of between 2,000 and 3,000 Latin words used as species—names of plants, giving the English equivalent or translation and the pronunciation.

Class Articles Special effort has been made to secure the best cultural advices for the plants requiring peculiar or particular handling. Here are some of the titles of these articles: Ants; Autumn Gardening; Bedding; Diseases; Drainage; Floral Designs; Formal Gardening; Hotbeds and Coldframes; Insects; Landscape Gardening; Lawn Planting; Orchards; Rock Gardening; Subtropical Gardening; Tools and Implements; Village Improvements; Window Boxes, etc.

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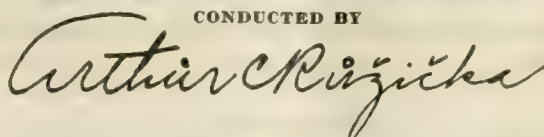
Further Particulars Sent On Request

HORTICULTURE, 147 Summer St., BOSTON, MASS.

HORTICULTURE, 147 Summer St., Boston, Mass.
Enclosed find \$3 for which send me the "Standard Cyclopedia of Horticulture" in buckram, and I agree to pay you \$3 per month for 11 months until the full amount of \$36 has been paid. (Or cash with the order, price \$35.)
Name.....
Address.....
Reference.....

ROSE GROWING UNDER GLASS

CONDUCTED BY



Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Roses for the Summer

If you are figuring on running a house or even a couple of benches of roses for summer blooming there is no better time to cut them back than right after Easter, when they no doubt will be pretty well cut off. Do not starve the plants, but see that they have a normal amount of plant food, at the same time be careful not to apply anything too strong. Use no chemicals. Bone-meal will be ideal, and applied in moderate quantities about once a week will keep the plants in nice shape. It would not be advisable to mulch the plants unless they need it badly and then only enough to keep them from suffering, as you will not want any mulch on the benches when the plants are to be dried off. Give the plants all the water they will need, as this will help open up many of the buds. Of course there is a limit, and watering should not be overdone if the plants are to be cut back and expected to produce good stock afterward. Keep the plants healthy, free from spot and spider to say nothing of mildew. Then when the time comes, cut them back properly, and they will well repay any special care taken to keep them in shape.

The Sod Heaps

As likely as not there is still a whole lot of sod to be put up for the summer, as help was scarce last fall, and many growers did not put up any sod owing to the conditions at that time. There is no time to waste now though if you expect to have good soil for the planting later. As soon as the ground is dry enough to handle see that a piece of suitable sod is plowed up real shallow, and then hauled to the proper places where it will be easy to get at when the time comes to use it. Take only what can be picked up with a fork, and leave all the rest of the soil on the field. This will help the field come back, and at the same time make nicer rose soil. In piling up the sod, make the bottom layer about a foot thick, giving this a good coat of manure. Then the succeeding layers of sod should be only thick enough to properly cover the manure. If they are made too thick the manure will not have a chance to work through the soil properly, and the result will be that the soil will not be evenly good. As soon as the sod has been laying put up a week or two, it can be chopped up if time will permit and thrown over, being very careful to break up the lumps of manure. Do not chop the sod too fine as it will decay some before it is used, and it should not be too fine for the benches. Have some intelligent man do this work as a good deal depends on evenly good soil when it comes to produce good roses. A good clay sod is the finest soil one could get, and with plenty of manure in it will make ideal soil. Growers whose soil is rather light will do well to look around for a bog, or a piece of swamp land, and see if it cannot be dried up enough to allow the muck to be carted and put into the heaps. A layer over the manure will do wonders to putting soil into shape. But it must be put into soil heaps quite some time before the soil is used in the greenhouse as it

is naturally a little sour, and if it cannot be allowed to lay where it can get plenty of sun, air and some frost before it is used, see that it is put right under or directly over a layer of manure in the soil heap. The manure will help wonderfully in putting it into proper shape.

Supply of Manure and Fertilizers

See that these are ordered on time so that there will be no work held up later in the summer when replanting is in full swing. Where cow manure has to come in by the carload, keep it coming. It will be a little while before it is fit to use so it will not hurt to have a carload or two lying around. A protected shed is the ideal place for it but it often happens that there is no shelter where manure can be stored. Then there is no better place than the tops of the sod heaps. It is easy to unload it there, and easy to load it again to take it to where it is needed if it cannot be placed right handy. If stored on the sod heaps this way, any liquid that is bound to leach will not be wasted but will be quickly absorbed by the soil in the heap and will not be wasted. A concrete platform drained into the liquid manure tank is really the proper thing, but these are found on very few places. Yet manure should be taken care of, as it costs money, and a whole lot of money is wasted every year by improper handling. Bonemeal tankage acid phosphate as well as all other items in this line that are the growers' favorites should always be on hand in sufficient quantity to meet any demand that may be made on the storehouse. Feed applied to the roses at the proper time works wonders, and to have it when the time comes means to order long in advance, and a continual supply on hand. Never let the supply of the necessary fertilizers get low. When piling the manure anywhere at all be sure to pile it so that it can be easily got at when it comes to turning it over. It should be turned over as often as time will permit to bring it around into proper shape for mulching. It is wasteful to use green manure as mulch, besides it may do great harm if not used carefully.

Cleaning Up

Business has been good, never better, and prospects are very good. Why not do a little housecleaning this spring. There are last year's rose brush still in a pile. There is an old heap of decaying boards, there is a heap of old ashes, to say nothing of the pile of accumulated rubbish of all sorts in some corner where it should least be. Get the men out some Saturday afternoon, and clean up. Spade up here and there for a patch of lawn grass. A flower bed would look nice here and there. An evergreen tree or two will be needed, and some good climbing roses on little pergolas or trellises over the potting sheds. Let your place be an advertisement to people who pass it, and let them take notice and copy. And first of all do not forget a sign, not too conspicuous but neat and to the point, telling all who wish to know who you are, what you grow, and do not forget the slogan "Say it with flowers."

HORTICULTURE

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CONTENTS

ROSE GROWING UNDER GLASS—Roses for Summer	
—The Sod Heaps—Supply of Manure and Fertilizers	
—Cleaning Up—Arthur C. Ruzicka.....	317
SOCIETY OF AMERICAN FLORISTS—National Publicity Campaign—Department of Plant Registration..	319
THE PLANT EMBARGO MENACE—An Amendment	
—Not Necessarily Final—Ships Ballast Not an Important Source of Introducing Plant Enemies.....	320
WHY MANY RETAILERS DO NOT PUSH CARNATIONS—Chas. J. Theiss.....	322
NEARLY EVERY TRANSPLANTED TREE SHOULD LIVE.....	324
OBITUARY—Fred W. Ude, Sr.—Grace M. Miles—Percy Rogers	325
ADAPTATION OF VEGETABLES—Dr. Will W. Tracy	326
SEED TRADE—Size of Catalogues.....	327
OF INTEREST TO RETAIL FLORISTS:	
Flowers by Telegraph.....	328
New Flower Stores.....	329
FLOWER MARKET REPORTS:	
Boston, Chicago, Cincinnati, Philadelphia, Rochester, St. Louis, Washington.....	331
LOCAL AND GENERAL NEWS:	
Boston, Philadelphia, Chicago, Rochester, Washington, Cincinnati	333-334
MISCELLANEOUS:	
News Notes	319
Pachysandra Terminalis	320
Can Not Trust to Foreign Inspection of Stock.....	321
Aquilegias, Long Spurred Hybrid—Illustration.....	321
Summer Spraying	327
Publications Received—Catalogue Received.....	327
Visitors' Register	329
Greenhouses Building or Contemplated.....	335
Patents Granted	335

A famous
bulb grower
has passed away

We have just received notification of the death of Mr. G. H. van Waveren of Hillegom, Holland, at the age of eighty-eight years. Mr. van Waveren was the "Grand Old Man" of the Holland bulb district; one of the highest authorities on bulbs and bulb culture and beloved by all who had the pleasure of his acquaintance. He gave considerable attention to hybridizing narcissi—the well known Van Waveren's Giant being one of his numerous achievements. He was a familiar figure at the London Flower Shows having visited England regularly every year from 1847 until 1914, when the war prevented his visits. Being a great connoisseur of tulips and nar-

cissi he was sought as a judge at the large exhibition in England. He had many friends in the United States by whom he was dearly beloved. For a number of years the active management of his firm, M. van Waveren & Sons, now the largest in Holland, has been carried by his son Mr. Theodore van Waveren.

Amendment No. 2 to Regulations supplemental to Notice of Quarantine No. 37 dated in the District

of Columbia the 27th day of March, 1919, amends to read as follows:

Regulation 14. Special permits for importation in limited quantities of prohibited stock.

An explanatory note follows which we find very indefinite and leaves us quite in doubt as to the value of this amendment to the trade, the full text of which will be found on another page of this issue. It is most unfortunate that the Federal Horticultural Board does not make itself more clear and exact. What does the Board mean by limited quantities, and why does it not give some idea now of what safeguards it will prescribe in such permits as it will issue? Throughout the whole action of the Federal Horticultural Board there appears to have been lacking a frank and straightforward policy in its attitude to and conferences with the trade. No one can tell just what amendment No. 2 actually means. Has the Board yet formulated its own definition or is it too groping and merely feeling out the temper of the trade. If so the Board will learn fully the mind of the trade with the advent of the next Congress. HORTICULTURE has taken the ground already that Quarantine 37 is largely unnecessary, unwise, and destructive to the interest of many thousands of our citizens whose voice will yet be heard for the rights to do business which they claim, and are entitled to enjoy. There should be included in the personnel of the Federal Horticultural Board some one possessing some business discretion.

Adieu!

My friend, as I am going far away—
 Ah, well, there is but little I can say;
 My heart is full, the words that I would speak
 Die on my lips, I am so strangely weak.

There's one thing I would ask before I go,
 You'll grant it, dear, for old time's sake, I know:
 'Tis only this, that midst all bright new scenes,
 And spite of all the space that intervenes,
 That dreary length and breadth of surging sea,
 You'll sometimes give a little thought to me.

Remember not the cruel words, unkind—
 The sore mistakes I made blot from your mind,
 But think of me as loving friend and true,
 Deal gently with me, as you used to do.

Forget, dear, every act that caused you pain,
 Life is so short—we may not meet again;
 Perchance this message brief may be the last
 That I shall ever send you from the past.
 Yet fate hath willed it so by stern decree,
 An ocean needs must roll 'tween you and me.

Farewell, with trembling fingers now I write
 This sad, sad word, with tear-be-dimmed sight,
 Think of me, dear, as loving friend and true,
 Remember me for old time's sake—adieu!

WILLIAM J. STEWART.

The above poem was written by the late editor of HORTICULTURE, William J. Stewart, during his last illness and has just come to light.—Ed.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

NATIONAL PUBLICITY CAMPAIGN.

With the close of March our campaign fund stands at a little over one-third of the required sum of \$100,000 subscribed. The progress made is not as satisfactory as might be expected, in view of the very excellent results following the campaign of last year, and the early efforts of this year. It is very evident that large numbers of florists are still hesitating to send in their subscriptions. On the other hand, it is pleasing indeed to record subscriptions from whole-hearted business men, in addition to amounts previously subscribed. These men have satisfied themselves that our campaign is no longer experimental in character, and is productive of immense benefit.

Various organizations in other lines of trade have for some years been conducting campaigns similar to ours, and from the fact that the efforts of many have been doubled several times we can safely judge that their campaigns have been successful. These campaigns have been conducted on lines which, in the main, are similar to our own. While some have employed a taxation plan based on goods shipped, the voluntary contribution plan has been adopted where possible. Nearly all use a slogan in connection with their publicity, but it is freely admitted that our own slogan, "Say it With Flowers" is the best ever coined. It is not mandatory, but simply suggestive—and there is subtle power in the suggestion.

All florists may use our slogan. The more it is used, the greater the benefit to the trade. But do not change it in any way—it ceases to be effective when changed or adapted to a personal reference. It is even better to use the exact type form adopted for the magazine advertisements. Our Promotion Bureau, in order to meet this need, has available electrotypes of the slogan line in various sizes for requirements under any and all conditions. Every florist who uses his local newspapers for his direct publicity should possess himself of one or more of these electrotypes. Folder describing them, and other newspaper plates, are available on application to the secretary. All electrotypes may be used

continuously according to their season. Our "Mother's Day" electro of last year is just as effective this year; all that need be changed is the "12th," and any newspaper will do this. The date this year is May 11th. All electrotypes of this advertisement sent out in future will have provision for this change.

One of our largest subscribers—a man who sizes up a situation very readily—has suggested that there may be many florists who would like to subscribe \$50 or \$100 or more annually, but would prefer to make monthly payments on their subscriptions. Our finance committee is quite ready to accept contributions in this form, and will record and publish the full amount of such subscriptions only.

Our committees would impress upon everyone who has not yet subscribed, the importance of taking action quickly. The committees lose no time whatever. As fast as available amounts are collected our advertising agency is instructed to put into circulation the publicity matter prepared. There is no waiting. This is the reason urged for a prompt response to our appeals. Now is the season for effort, and the committees are not justified in taking personal risks in the placing of any orders for which they have not sufficient funds to cover.

The following subscriptions have been received and are in addition to those previously announced, annually for four years unless otherwise stated:

Frey & Frey, Lincoln, Neb. (additional subscription), \$50; Steinhäuser Florist & Nursery Co., Pittsburg, Kans., \$10; Koeth's Flowers, Roxborough, Phila., Pa., \$10; John Feiden, Jr., Great Falls, Mont., \$5; Julius Chevalley, Blue Point, N. Y., 5; Oscar S. Magnuson, Kane, Pa. (1 year), \$5; S. F. Stephens & Son, Columbus, O., \$25; Walter A. Hammond, Lancaster, Pa., \$5; Edward Smoklewitz, Hamtramck, Mich., \$5; Marret & Miller, Louisville, Ky., \$10; William Sim, Cliftondale, Mass., \$25.
Total, \$155.00. Previously reported, \$34,290.50. Total, \$34,445.50.

Department of Plant Registration.

Public notice is hereby given that The Elm City Nursery Co., Woodmont Nurseries, Inc., of New Haven, Conn., submit for registration the new plant mentioned below:

Ibolum Privet is one of some thousand seedlings produced by crossing Ligustrum Ibota with Ligustrum ovali-

folium, ovalifolium being the mother parent. It is similar in general habit to the California Privet, being perhaps somewhat more robust. The foliage is glossy dark green, turning at maturity, when subjected to extreme cold weather, to a rich bronzy green. It is also more inclined to bush freely from the base as compared with California Privet. Its great claim for the public's consideration is its hardiness, partaking in this respect of the pollen parent, Ibota, having proved to be perfectly hardy wherever the Ibota Privet is hardy, which gives this new hybrid a very extended range of usefulness. The extreme test as to hardiness was proved in the winter of 1917-18, when Ibolum Privet lived without the slightest injury, side by side with the California Privet, which was not only killed to the ground but in many cases perished outright. The name 'Ibolum' is coined from the Ibo from Ibota, and lium from ovalifolium.

Any person objecting to this registration, or to the use of the proposed name, is requested to communicate with the secretary at once. Failing to receive objection to the registration, the same will be made three weeks from this date.

JOHN YOUNG, Secy.

1170 Broadway, New York

April 2, 1919

NEWS NOTES.

Cincinnati, O.—J. A. Peterson & house Co. has increased its capital stock to \$50,000

Marshalltown, Ia.—The Ford Greenhouses have been acquired by the Lincoln Gardens Co.

Newcastle, N. H.—Elmer E. Eaton is now running the greenhouses formerly operated by Chas. W. Eaton.

Olney, Ill.—Julius Bartz has purchased the store and greenhouses of Mrs. Gus Schlegel, 211 Whittle avenue.

Bradghampton, L. I., N. Y.—The Saxon farm of 38 acres in West Babylon, was last week sold to C. J. Van Bourgondien, representing the firm of K. Van Bourgondien & Sons, of Hillegom, Holland, and it is reported they will plant the entire acreage in bulbs this spring in anticipation of next fall's trade.

THE PLANT EMBARGO MENACE

AN AMENDMENT.

The following communication has been received from the office of the Secretary of Agriculture and speaks for itself:

UNITED STATES DEPARTMENT OF AGRICULTURE, OFFICE OF THE SECRETARY.
Federal Horticultural Board.

Amendment No. 2 to Regulations Supplemental to Notice of Quarantine No. 37

Under authority conferred by the plant quarantine act of August 20, 1912 (37 Stat., 315), it is ordered that Regulation 14 of the Rules and Regulations Supplemental to Notice of Quarantine No. 37 Governing the Importation of Nursery Stock and Other Plants and Seeds into the United States, effective June 1, 1919, be, and the same is hereby, amended to read as follows: Regulation 14. Special permits for importation in limited quantities of prohibited stock.

Application may be made to the Secretary of Agriculture for special permits for the importation, in limited quantities and under safeguards to be prescribed in such permits, of nursery stock and other plants and seeds not covered by the preceding regulations for the purpose of keeping the country supplied with new varieties and necessary propagating stock: Provided, That this shall not apply to nursery stock and other plants and seeds covered by special quarantines and other restrictive orders now in force, nor to such as may hereafter be made the subject of special quarantines. A list of nursery stock and other plants and seeds covered by special quarantines and other restrictive orders now in force is given in Appendix A of these regulations.

Done in the District of Columbia this 27th day of March, 1919.

Witness my hand and the seal of the United States Department of Agriculture.

D. F. HOUSTON,
(Seal) Secretary of Agriculture.

NOT NECESSARILY FINAL.

Extract from letter of Secretary D. F. Houston, Department of Agriculture, dated Washington, March 28th, 1919, addressed to Winfred Rolker, New York Florists' Club Protesting Committee, 51 Barclay street, New York, N. Y.:

It is clearly my opinion that the distinction and classes in this quarantine order have been made only after care-

ful consideration of the best information obtainable. It is also evident that the various restrictions embodied in the order are not necessarily final; one amendment has already been issued, that of February 12, 1919, with reference to the use of sterilized soil about the roots of imported plants. It is, therefore, always possible that further convincing evidence may make other amendments necessary, not only for modifying or removing restrictions now in force, but also for extending existing restrictions or adding further prohibitions thereto, etc., etc., matter follows, and ends with:

In view of the facts and considerations above set forth, it is my opinion that Plant Quarantine 37 is scientific in origin and purpose, as well as sound in principle, and that its enforcement will make for the safety of the plant, fruit and forest interests of the country, with as little injury to private agencies and individuals as is compatible therewith.

(Signed) D. F. HOUSTON,
Secretary."

SHIP'S BALLAST NOT AN IMPORTANT SOURCE OF INTRODUCING PLANT ENEMIES.

Objectors to the plant quarantine have insisted that there is as much danger of the introduction of insect pests in the earth used as ballast by ships returning from Europe as in the earth around foreign plants imported in balls, pots or tubs. The earth around balled, potted or tubbed plants can not be disinfected or cleaned and involves a large and known risk. In view of the argument that earth ballast is equally dangerous, the Federal Horticultural Board of the United States Department of Agriculture during the past two months has undertaken a thorough investigation of such ships' ballast. This investigation has had special relation to the ports of New York and Boston, but is being extended to cover New Orleans, San Francisco, and other principal ports of the United States. The war conditions have evidently very much increased the amount of ballast thus brought to the ports of Boston and New York, for the reason that during the war transports carrying troops to France returned, for the most part, in ballast. The material employed for such ballast, however, would seem to involve very little risk of being the means of the introduction of dangerous plant

enemies, according to statements made by the investigators of the Department of Agriculture. The bulk of it consists of sand, gravel, broken rock, and even ashes. Soil is occasionally employed, but in the main this soil seems to have been derived from river banks or from excavations for construction purposes (cellar soil); in other words, such primeval soil as has had probably little or no touch with cultivated land. It is not at all probable that valuable garden or field soil would be secured and used for ballast purposes. The sand and gravel is as a rule sold for building or other construction purposes, and the broken rock and soil have been used to some extent for filling in, and that brought in on government vessels largely for fills in connection with government constructions on the water front. Some of this ballast has been towed to sea and dumped along with city waste. It is perfectly apparent that there is very little danger from such material, and it cannot be considered in the same sense at all as the highly cultivated soil coming with plants grown in greenhouses or in gardens or fields, and should any insect life get into such ballast material it would be accidental and exceptional. This investigation, however, will be continued to determine whether there is any danger in connection with such ballast which should be guarded against. Undoubtedly the amount of ballast brought to American ports will greatly diminish when normal commercial conditions are fully resumed.

PACHYSANDRA TERMINALIS.

I notice one of your advertisers has fifty thousand small plants of this to offer and to those outside of Boston and vicinity it may be well to state that this is one of the finest little plants for making an evergreen mat under trees where nothing else will grow. The true terminalis has glossy green foliage, is perennial, and is a very desirable cover plant. It also does well in full sun as well as in the shade. If you can't make grass grow under your trees, try this. Wood meadow grass is scarce these days.

G. C. W.

The St. Louis Florists' Association met Monday, March 24, at Knights of Columbus Hall. They discussed publicity and supported the Milwaukee plan of collecting funds.

AQUILEGIAS, LONG SPURRED HYBRIDS



CAN NOT TRUST TO FOREIGN INSPECTION OF NURSERY STOCK.

The main arguments of objectors to Plant Quarantine No. 37, which will greatly restrict the entry of nursery stock and other plants and seeds, beginning June 1, 1919, are that either no pests are brought in on such imported stock or that thorough inspection abroad would eliminate any undesirable insects. There is no question but that the chief exporting foreign governments have given to their nursery stock the best inspection which human skill and science can afford. Failures, says the United States Department of Agriculture, are due to the human equation and to conditions not subject to change, which make inspection and certification insufficient safeguards.

The inadequacy of such inspection since 1912, when it became operative, is shown by the findings resulting from reinspection of imported material at destination in this country. Data gathered by the United States

Department of Agriculture show that there have been received from Holland 1,051 infested shipments, involving 148 kinds of insect pests; from Belgium, 1,306 infested shipments, involving 64 kinds of insects; from France, 347 infested shipments, involving 89 kinds of insects; from England, 154 infested shipments, involving 62 kinds of insects; from Japan, 291 infested shipments, involving 108 kinds of insects; from Germany, 12 infested shipments, involving 15 kinds of insect pests. Many of these intercepted insects are not known to be established anywhere in this country and numbers of them, if established, would undoubtedly become important farm, garden, or forest pests.

FLORISTS' CLUB OF WASHINGTON, D. C.

Tuesday, April 1, was inauguration night at the Florists' Club of Washington, D. C. Z. D. Blackistone and William F. Gude were inducted into office as president and treasurer, re-

spectively, each having been re-elected at the last meeting. Because of illness Mr. Gude was unable to be present. The other officers inducted were George E. Anderson, vice-president, and E. P. Rodman, secretary.

George C. Shaffer, chairman of the special committee appointed by President Blackistone, made his report on the banquet arrangements and outlined the program of entertainment.

The secretary reported on the publicity that had been given to the coming event. Considerable interest has been aroused by the announcement that each lady guest at the banquet would be presented with a Victory Corsage. This statement appearing in the public press, it was stated, is leading to a demand for such a corsage generally.

Z. D. Blackistone reported on decorations and Otto Bauer on tickets. From these reports it is very apparent that a very enjoyable evening will be spent by all who attend, and that the banquet will be the most successful event in the history of the club.

WHY MANY RETAILERS DO NOT PUSH CARNATIONS.

Paper read by Chas. J. Theiss before Florists' Club of Philadelphia at its March meeting.

Your Committee has asked me to tell why many retail florists do not push carnations for general use. It is in the spirit of co-operation that I have accepted the invitation, and will be as brief as possible.

In the first place, they have found carnations unprofitable, and any business man who expects to make a success of business, discards unprofitable items.

We have here to-night an exhibition of carnations that any retail store man might be proud to have as a stock for his store—flowers that have stem, size, fragrance, color and extreme beauty—all that go to make a desirable flower; but do we, as retailers, get them as we see them here to-night? NO. Instead it is too often the case, as one of our fellow storemen remarked the other day. "I am lucky to get seven dozen salable flowers out of a hundred."

Now if we figure on one hundred per cent. gross profit on a purchase of one hundred flowers, and only seven dozen are fit to sell, with possible loss of unsold flowers, it can easily be seen that the retailer will come out at the short end of the horn.

In a purchase recently, from a bunch of carnations, I found that it contained 13 first class flowers, 5 seconds, 3 splits, 3 weak stems, 1 flowerless stem—cost a bunch \$1.50.

Now, for the sake of argument, suppose these flowers were offered on the basis of 100 per cent. gross profit.

12 out of 13 first class at \$1.50, 12 remaining, not first class at \$1.00, or a total of \$2.50.

Looks pretty good, don't it—\$1.00 profit on an investment of \$1.50. But that is not all. These flowers are to be delivered. What does that mean? Added cost to the carnation, as all florists know. Carnations are never sent in with foliage, that means some green must be given, added cost to the carnations, no florist will deliver flowers unless they are put into a neat box—again added cost to the carnations, not mentioning overhead charges, viz. rent, light, labor, etc., which are all a part of an expense that should be borne proportionately. Now let us see where we come out on our 25 no 24 carnations.

Cost carnations.....	\$1.50
" 2 boxes, paper, etc.....	.10
" green .....	.10
" Delivery .....	.20
Total cost	\$1.90
Carnations sold for.....	\$2.50
Cost	1.90
Net profit	\$.60

or in other words approximately 30 per cent. on your investment. Should there be a waste of one-half the inferior grades, which is often the case, you can readily see where the retailer would "get off." Thirty per cent. may mean a lot to those doing a large volume of business—where the risk is not great; but no retailer dealing in perishable goods and covering a large stock can do business on that basis and survive. You will note that I do not class splits as seconds, they are in a class by themselves, seconds are fairly good flowers but smaller.

The growers should be more careful in the grading of his flowers, one or more inferior flowers in a bunch depreciates in the eyes of the buyer the entire bunch. Growers and wholesalers may think we are too critical, too particular, but they must remember that we are looking through the eyes of our customers, the flower buying public. It is because we are particular that the past three years has seen our own business increase more than 300 per cent. in volume; a good flower will always command a good price; but a poor one we don't want at any price.

Carnations have proven unprofitable for us to handle because of their poor lasting qualities. Here let me say, something is very wrong. More complaints have been made on the poor lasting qualities of the carnation than any other flower that I know of. During the holiday season we would not care to take a chance on them and did not buy any. How can you growers and wholesalers expect we retailers to push carnations when a feeling like that exists? It is true that carnations have been in greater demand and have brought better prices this season, but that is only due to unusual conditions. But we must go back a year or more, and what do we have, it is the effects of the past that caused many of the retailers to side track the carnation. Carnations grown for quantity not quality, held back for days by the growers when a holiday season comes along, then dumped on the market in an unsalable condition with fancy prices asked by the wholesaler. The retailer only buying what he absolutely had to have, the balance going to the street men to be sold, as I have seen it, at a price that would not pay for the cutting, let alone the growing of the flowers, in other words the carnation has been cheapened, made a plebeian flower, and only offered by first class florists when customers want something cheap. Some growers hold back carnations and ship them but twice a week, reaching the retailers

when two or three days old, thinking thereby to save express charges; but that is poor economy for you lose out in the long run. Better ship every day and have your carnations in a salable condition.

When I was asked to read a paper on the retailer's viewpoint, without much thought I said yes; since, however, the thought occurred to me I'll try and see what can be done toward selling carnations. To one of our customers, a lady, I suggested carnations. How often, Mr. Retailer, have you heard the same remark: Oh! I hate carnations. I asked Why? Well, she said, when I was in the hospital a friend sent me some carnations, and do you know I was delighted; but toward evening they seemed to close up; the next morning when I saw the flowers they were dead and had to be thrown out. Imagine me lying there sick, watching those flowers simply curl up and die. It gave me the creeps and I have hated carnations ever since. Get the point, Mr. Grower. These conditions must be remedied before the retailer can become enthused over carnations.

Here Mr. Theiss read a number of purchase slips of cut flowers for several days' business, showing the very small proportion of carnations as compared with other flowers.

You might ask what has all this to do with carnations; it is merely to show that carnations are in competition with other flowers, you can readily see that a matter of price is no bar to the sale of flowers providing the flowers are select and of a quality. Justifying the price the grower must remember that the retailer is his customer, if not dealing directly it is through the wholesaler and it is just as important that he satisfy the retailer as it is for the store man to satisfy his customers. Can we retailers expect our customers to continue the purchase of carnations under these conditions or can the grower expect the retailer to push carnations, when it is more profitable and more satisfactory to handle other flowers.

The National Publicity Committee of the S. A. F. is asking that you subscribe to a fund to use for advertising purposes. Many of you have already subscribed, last year over \$45,000 was given them for that purpose to bring before the public the slogan, "Say it with Flowers," this year more is asked, but let me tell you that your money is wasted, thrown away, and advertising is not worth a, pardon me, ladies, if you say it with flowers like these —————.

ATTENTION **FLORISTS**

"FOR EASTER"

WHOLESALE AND RETAIL

300,000 Cut Easter Lilies

\$15.00 to \$20.00 per hundred

Realizing the problem that is facing the Wholesale and Retail Florists throughout the Country, relative to securing Easter Lilies for their Easter business, and considering that what few Lilies they may be able to obtain will be at such an exorbitant price, namely \$35.00 to \$40.00 per hundred, due to the fact that there is only one-tenth of the usual production on account of the Growers being unable to get sufficient LILY BULBS, you can readily see the seriousness of the LILY SITUATION.

WE, THE ONLY HOUSE IN NEW ENGLAND being able to obtain EASTER LILIES at a reasonable price take pleasure in announcing that we will have a supply of **THREE HUNDRED THOUSAND (300,000) CUT LILIES**, which we are pleased to offer you at an approximate price of **\$15.00 to \$20.00 PER HUNDRED**.

We will also have in stock, as usual, a supply of all seasonable CUT FLOWERS at prevailing market prices. We suggest that you place your order as soon as possible and we assure you that the same will receive our careful and prompt attention, with **QUALITY, SERVICE and RIGHT PRICES**.

Unknown customers will please send cash with order, or furnish satisfactory references.

"NO POTTED LILIES"

B. A. SNYDER CO., **WHOLESALE FLORISTS**

Florists' Supplies and Cut Flowers

23-25 Otis Street -- -- -- -- BOSTON, MASS.

"THE HOUSE OF QUALITY"

NEARLY EVERY TRANSPLANTED TREE SHOULD LIVE.

Practically every properly grown nursery-tree will live, if taken up at the right time, suitably planted and cared for. If the location and soil conditions are favorable, such a tree will make a vigorous growth, developing into a thing of beauty and usefulness.

All trees vary somewhat in their ability to withstand the shock of transplanting; structural characteristics playing an important part. One working among trees becomes familiar with their individual peculiarities, and for convenience trees are often classed as *easy* or *difficult* to transplant. Some trees can be successfully moved at any time of the year, in any stage of growth. Others are very sensitive at certain times and not at all so at others. One should be familiar with these peculiarities before attempting to transplant a tree, or should depend upon the advice of those who have had experience. *Nursery-grown trees* are so cultivated and cared for that not only have the tops been trained into desired forms but the root systems have also been equally carefully trained. A tree thus grown is in condition to be transplanted without seriously interfering with its root system.

Native trees as dug from the woods or meadows have never been disturbed. The root systems following nature's impulses have wandered about over quite as extensive a space as the tops themselves, and when one attempts to dig up such a tree, it is usually found quite impossible to preserve any considerable portion of the root system. This is the all important reason why nursery-grown trees are to be preferred to wild ones, and it is especially true of such sorts as prove *difficult* to transplant successfully.

When to Plant.

As a working rule, with many exceptions 'tis true, it is safe to say that trees are more successfully transplanted when they are not in active growth. All forms of vegetation have times when growth is more active than

at others. In temperate climates most trees go into a quiescent or dormant state in the *fall* and remain so until the warm *spring* temperatures encourage new growth. During this dormant interval, barring some few exceptions, trees can be transplanted successfully, provided suitable care is exercised. This applies especially to deciduous trees, *i. e.*, those whose foliage drops after maturity of growth. Most evergreens and other plants that may be dug with a good ball of earth adhering to their roots, can be transplanted at any time when not in active growth.

How to Plant.

Take a medium sized nursery-grown *Sugar Maple Tree* for example. Procure your trees of some reliable source. They must be good trees to start with. If they come to you in a box or bale, it is advisable to wet the roots thoroughly and allow them to remain undisturbed several hours before taking out of original package. Trees can often remain for many weeks in perfect condition if roots are kept in a reasonably moist state without unpacking. Unless you are ready to plant right away, select a cool, shady place protected from the drying winds and set out temporarily, covering the roots deep enough to keep them from drying out. Many trees can be huddled or set close together this way with little trouble, where they may remain until everything is in readiness for their permanent setting. Luxuriant and healthy growth can only be reasonably anticipated where favorable conditions exist. If plantings are to be made in land that is in a high state of cultivation and fertility, merely digging the hole only large enough to allow filling in about the tree's roots without bending or cramping is all that is required. It is often desired to make planting where special preparation is required. If the ground is likely to be too wet, provision for draining must be made. Under usual conditions it is desirable to dig the hole quite twice as deep and twice as large as is necessary to receive the roots without any bending or cramping. Remove all material that is not good, loamy soil. If the ground at the bottom of the hole seems sandy, several inches of sod and rotted manure placed at the bottom not only will encourage growth, but help to retain moisture in the soil. In filling in about the roots use only fine, rich, loamy soil, taking great care to have every space between the roots filled with earth. This is very important. Compact the soil so thoroughly that when the planting is completed the trees will stand as firm as a post. The root of the tree must not be dry at

Chrysanthemum Cuttings

Major Bonnaffon, Chas. Razer, Oconto, Pacific Supreme and Chrysolora, ready April 1st, \$2.50 per hundred.

Also, Extra Strong Cuttings of Carnation Matchless, \$20.00 per thousand.

W. D. HOWARD

MILFORD,

MASS.

time of planting; in fact, must not have been exposed to the sun or dry wind from the time of taking out of the ground until again planted in the ground. Fall planted stock seldom needs watering, but spring planted stock is generally much benefited by liberal use of water, both at time of planting and after completion.

After Care.

Inasmuch as a newly planted tree has a very small root area to maintain it and that very near the surface, it is quite evident that if neglected and the ground allowed to become hard and dry, it is a severe tax and if not actually resulting in death will at least seriously retard growth. In the event of dry weather during the first year at least after planting, newly planted stock must not be allowed to suffer for want of sufficient moisture. The amount of care varies greatly with local conditions.

Mulching and Watering.

Moisture in soil can be conserved with but very little trouble about a newly planted tree by placing several inches of hay or other similar material about it. This will keep what moisture may already be in the soil from evaporating. Loosening the soil frequently during hot, dry weather gives similar results. Frequent watering is not recommended, but if one has reason to believe that the ground is getting too dry about a newly planted tree, give a thorough watering, one that soaks well down.

ORCHIDS

CHANCE of a lifetime to buy Cattleya of every variety at a big sacrifice.

These plants must be sold at once.

MILTONIA CONSERVATORY

180 Wheeler Ave., Providence, R. I.

List prices on request. Tel. Broad 3463

INSTRUCTION IN GARDENING

Practical instruction is offered in vegetable, flower and fruit gardening, greenhouse and nursery practice, together with lectures, laboratory, field and shop work in garden botany, zoology, pathology, landscape design, soils, plant chemistry and related subjects.

The curriculum is planned for the education of any persons who would become trained gardeners or fitted to be superintendents of estates or parks. Students may be admitted at any time. Circulars and other information will be mailed on application.

The New York Botanical Garden

Bronx Park

NEW YORK CITY

Headquarters for

**PACHYSANDRA
TERMINALIS**50,000 out of 2 1/4
inch pots.

Write for Prices

OLD TOWN NURSERIES
SOUTH NATICK, MASS.

M. P. HAENDLER, Prop.

FERN S

	Per 100	Per 1000
BOSTONS 2 1/4 inch	\$6.00	\$50.00
ROOSEVELTS	6.00	50.00
WHITMANI	6.50	55.00
WHITMANI COM- FACTA	6.50	55.00
VERONA	6.50	55.00
TEDDY, JR.	6.50	55.00

Stock all sold until April 1st.

Order either direct or through
S. S. Skidelsky & Co., Sole Agents
Philadelphia, Pa.

HENRY H. BARROWS, WHITMAN, MASS.

Spring Planting.

This is a season of the year when the garden lover is full of enthusiasm and anticipation. This is the season when the largest amount of planting is done. Do not delay longer than is necessary after the frost is well out of the ground. Many kinds of stock are quite long suffering, however, and will still thrive even though subjected to late planting and other harsh treatment. Many successful plantings are made even well up into June where exceptional facilities for special care are at command.

• Fall Planting.

With most trees fall planting is very successful, especially where carefully grown nursery stock is used. If planting is properly done at this season it gives ample opportunity for the earth to become normally firm again about the roots before another growth starts. It also gives opportunity for the cut off root ends to heal over or callous and when spring time encourages new growth of root and top the plant suffers no further setback. Fall is always a season of comparative leisure

HILL'S EVERGREENSBEST FOR OVER HALF A CENTURY
Small, medium and large sizes supplied
Price list now ready**THE D. HILL NURSERY CO.**Evergreen Specialists. Largest Growers
in America
BOX 415, DUNDEE, ILL.**BEST YOUNG TREES****Little Tree Farms,** FRAMINGHAM,
MASS.We have millions of growing EVERGREEN AND DECIDUOUS TREES
complete in grades and sizes.*Write for Price List*Seedlings and Transplants, Firs, Junipers, Arborvitae, Pines, Spruces,
Maples, Ash, Oaks, Lindens, Elms, etc.**American Forestry Co.**15 Beacon St.
Dept. C.
Boston, Mass.**IBOLIUM**The New
Hybrid**HARDY PRIVET**(L. Ibota x Oval-
folium)

TO BE SENT OUT IN THE FALL OF 1919. Introducing of Box-Barberry.

Elm City Nursery Co., WOODMONT NURSERIES, Inc., New Haven, Ct.

**Julius Roehrs Company
PLANTSMEN**Orchids, Conservatory Plants, Novelties, Begonias, Garden
Perennials*Finest Stock in America for Trade or Private Requirements*
RUTHERFORD, NEW JERSEY

in the garden, giving opportunity for far more careful attention to a plant's requirements at the planting time.

Enemies.

The foliage of newly planted trees is very important to their welfare, and a watch should be kept for any enemies that will injure it. If such appear they should be promptly removed. This is not a difficult task but one that must not be neglected.

Obituary**Fred W. Ude, Sr.**

We regret to announce the death of Fred W. Ude, Sr. of Kirkwood, Mo. He was a grower of violets, sweet peas, carnations and chrysanthemums. He leaves two Sons, H. W. Ude, Jr., and Charles Ude. The old gentleman was over 80 and highly respected by all who came in contact with him.

Grace M. Miles.

Grace M. Miles, only daughter of Arthur and Winifred Miles of Chestnut Hill, Mass., was suddenly stricken with tubercular meningitis and died in the Children's Hospital on March 24. Mr. Miles is orchid grower for Mr. Ernest B. Dane of Chestnut Hill. The funeral took place from her home in Chestnut Hill March 26th.

Percy Rogers.

Percy Rogers, aged 61 years, who was a former resident of Lockport,

and a florist, died at his late residence at Albion, N. Y. He was a native of England, but had been a resident of New York State for 27 years. Besides his wife and one daughter, Violet Rogers, he is also survived by three sons, all being with the Army of Occupation in Germany; also three brothers and two sisters in England.

Newburyport, Mass.—C. J. McGregor & Sons have purchased the farms, greenhouses, barns and dwelling houses which for many years were owned and operated by the firm of Kent & Marsh. The farms are composed of all kinds of land from bog to high upland and it is the intention of the new owners to carry on a general nursery in addition to their present retail florist business.

**NEW BEGONIA
MRS. M. A. PATTEN**

(DARK PINK SPORT OF BEGONIA

Gloire de Chatelaine.) This sport of the well known Chatelaine is a beautiful shade of dark pink, bordering on a brilliant scarlet, which is even more intense when planted out in the summer. As easy to grow as Chatelaine, identical in every respect except color. Strong, vigorous grower. 2 in. pots, \$15.00 per 100. Delivery May 1919.

L. J. REUTER CO.
Plant Brokers

329 Waverly Oaks Road, Waltham, Mass.

ADAPTATION OF VEGETABLES.

A lecture delivered by Dr. Will W. Tracy of the Bureau of Plant Industry, Department of Agriculture, before the Massachusetts Horticultural Society.

"My study and work of over fifty years have been devoted to seed breeding and growing, and I have carefully examined and watched the growth of thousands of samples of varieties of vegetables and flowers grown from the same original stock, but under differing climatic and soil conditions, and selected by different people; and I have inspected hundreds of crops grown from seed in different locations from Maine to California and thus have had abundant opportunity to notice differences in strains grown in this country or Europe from the same original stock, but under different conditions of soil and climate, which had resulted in the development, without crossing or even careful selection, but simply as the result of differing soil and climatic conditions, of very distinct strains, each adapted to certain cultural conditions or consumers' requirements and often as well worthy of being distinguished by distinct varietal name as those already found in seedsmen's catalogues.

"Through this experience it has become the conviction of my later years that every individual seed carries the same sort of potentiality and limitation of development as an egg or a new born rabbit. When we hatch the hen's egg under a duck the chick will not take to the water though the duck and rest of the brood do so and leave it alone on the shore. Nor can we, by putting a still blind young rabbit to nurse with the litter of pups, teach it to bark.

"Every seed is made up of a certain balanced sum of ancestral influences and fixed in character beyond the possibility of change by growth conditions, before it left the parent plant. There are often distinct differences in the varietal character of seeds from individual plants of the same breeding as well as in the yield of seeds in different locations. Although the varietal character of every seed is fixed at its maturity, it is sometimes modified by climatic and other conditions while developing, and in some cases such modifications are transmitted to succeeding generations, so it is sometimes the case that local-grown seed will give a different return from that matured under other conditions, and not infrequently seed grown in one's own garden will give better returns than that grown elsewhere.

"The social conditions and ways of modern life have changed the general aims and practice of seed growing.

Formerly the housewife looked each morning to her garden or called upon some nearby market gardener for her daily supply of vegetables, and table quality was of greater importance than appearance. Now, the cook orders what she may need from the gardener, or the market, and low cost and appearance are of the greatest importance. Then, the greatest interest was taken in the saving of seed from the best plants and the development or possession of a superior strain was a matter of family pride. Many of the best strains had been in the possession of certain families for many years. Now, both home and market gardeners look to the seedsmen for their supply and yield and shipping quality, and last, but by no means least, the price at which it is offered, determines the stock used.

"Different species and varieties, and even individuals of both animals and plants, differ greatly in the extent to which variety of form or habit of growth occurs naturally or can be secured by cultivation and breeding. Selection and breeding have given us less than a dozen but slightly different varieties of parsnip compared with scores of distinct sorts of carrots and beets, differing in size, form, color and adaptation to certain uses.

"Although the varietal character of a seed is fixed at maturity, its development may in some cases be modified by the climatic and other conditions in which it was matured, and it is often possible to secure local-grown strains of seed which will give better returns when planted in that vicinity than can be secured from stock equally well grown elsewhere. I think the greatest possible betterment in vegetable growing is through its greater varietal uniformity and adaptation to local conditions. I have been impressed with the uniformity of varietal character seen in some of the houses of lettuce in this vicinity, and have been told that they were from home-grown and selected stock seed, and I believe that was the most important feature of their success.

"Again, I think I can say, without exaggeration, that in the aggregate, though varying somewhat in different vegetables, fully ten per cent. of the very best and most useful varieties I have ever known have never come into general use, or have disappeared and are no longer obtainable because, though heavy producers of market products or of superior quality, they were such poor seeders that seed could not be profitable handled by the seedsmen at the prices paid for most sorts. We think that the demand of gar-

deners for uniform prices for standard varieties, with cut rates in years of over production, is one of the most unfortunate conditions in the trade, and we hope that the high prices asked and paid last year for some species may lead to a change in this respect.

"The home-growing and saving of seed of garden vegetables is quite practical and by no means as difficult as is commonly supposed. The principal requisite is a wise choice of superlative plants and the thorough curing of the seed before storing. The way to accomplish this varies in different species. With peas and beans, selected plants should remain in place as long as possible without serious loss from shattering, then, while still damp from dew, should be gathered and stored where there is good circulation or air until the seed is perfectly dry, when it may be thrashed out and stored in muslin bags.

"In saving seed of sweet corn, as early as the probable character of the grain can be determined, strip down the husks on one side sufficiently to enable you to make a selection; turn back the husks and hold them in place by a rubber band. Mark the selected ears by covering them with a paper bag which will also save them from the sparrows. Allow the plants to stand in place until there is danger of a killing frost, then cut the stalks, store under shelter until thoroughly dry and save either on the ear or shelled, in paper bags.

"In saving seed of tomato, pepper, eggplant, cucumber, melon and squash, selected fruit should be left on the vine without their becoming so soft as to be disagreeable to handle, or being exposed to even a light frost. Then opened, the seed scraped out with as little of the pulp as possible and allowed to sour and ferment from one to four days, when the seed should be washed, using plenty of water and repeatedly pouring it off until seed is perfectly clean, when it should be spread out not over two grains deep until perfectly dry, when it may be stored in muslin bags and kept in an airy place.

"Selected plants of lettuce should be allowed to stand in place until there is danger of serious loss from shattering, then each plant covered with a large inverted paper bag, the lower end tied about the plant so as to save the early matured seed which drops, and allow to stand until most of the seed is matured, when the plants, still enclosed in the sacks, may be cut and stored in any place until thoroughly dry, when the seed may be winnowed clean and stored."

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, F. W. Bolgiano, Washington, D. C.; First Vice-President, Wm. G. Scarlett, Baltimore, Md.; Second Vice-President, David Burpee, Philadelphia, Pa.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

Size of Catalogues.

In a letter to The Seed World, Chicago, Ill., Curtis Nye Smith writes as follows:

"I note in the issue of The Seed World of March 21st an article relative to the size of catalogs which are to be sent through the mails.

"It may interest you to have the recent decision of A. M. Dockery, 3rd Asst. Postmaster General, written to the writer on this matter. The circular letter of Post Office Department of June 3, 1918, suggesting the restriction of the size of envelopes to 4 x 9 inches is not an order, but simply a suggestion, and Mr. Dockery uses these words:

"Whenever it is practicable to prepare matter so that it can be enclosed in an envelope not exceeding 4" x 9", this should be done."

"As it is quite impossible for the needsmen or nurserymen to limit the size of their catalogs to the dimensions above indicated, relief is felt that this circular of June 3, 1918, is not an order but merely a suggestion.

"It is understood that some local postmasters are holding this circular of June 3, 1918, to be an order, and if any difficulty arises, it is suggested that the local postmaster secure an opinion from Mr. Dockery."

SUMMER SPRAYING.

Almost every Missouri apple orchard will produce more and better fruit if the first summer spray is applied. Apple scab, the spring canker worm and the plum curculio cannot be successfully controlled without this spray, according to T. J. Talbert of the University of Missouri College of Agriculture.

In general for Missouri orchards the most satisfactory spraying solution to use is commercial lime-sulphur concentrated (1½ gallons to 50 gallons of water) and 1 pound of powdered arsenate of lead or 2 pounds of the paste form in every 50 gallons of spraying solution.

This summer spray should be applied when the apple flower buds begin to separate and show their pink petals but before the blossoms open.

Since the period of time for this

spray is generally from four to seven days it is important that the fruit grower have on hand enough spraying chemicals for at least one application and that the spraying equipment be in good working order, for a few days delay may allow the apple trees to come into bloom, during which time they should not be sprayed.

The second summer spray should be applied immediately after the petals or blossoms fall, using the same spray as in the first application. This is the most important summer spray and should never be omitted. It is for the control of the same pests as the first spray and is the most important spray for scab and codling moth. Since a majority of the first brood codling moth worms enter the apples through the calyx end, it is important that this be a very thorough and driving spray.

Like the first summer spray this application must be applied within a few days to be most effective. For the greatest number of varieties of apples the calyx lobes close in from 5 to 8 days after the petals fall. We must, therefore, apply this spray within this period to be successful in preventing wormy apples.

The second or calyx spray should be followed by a third spray in about 2 or 3 weeks. In orchards where curculio injury is severe the spray should be applied in from 7 to 10 days after the calyx spray. This is the most important application against apple blotch. If the disease is serious, as it frequently is in the southern part of the state, Bordeaux Mixture (3-4-50) and arsenate of lead should be used instead of the lime-sulphur solution.

The fourth summer spray should be applied about 3 or 4 weeks after the third. It is for the control of most of the insect pests and fungous diseases mentioned above and is also important in preventing bitter rot. Where apple blotch or bitter rot is serious

MICHELL'S NEW CROP Asparagus Plumosus Nanus

GREENHOUSE GROWN SEED

1000 Seeds....	\$3.00	10,000 Seeds....	\$25.00
5000 Seeds....	13.75	25,000 Seeds....	56.25

Asparagus Sprengeri

1,000 Seeds....	\$0.75	10,000 Seeds....	\$5.50
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Special prices on larger quantities.

Also all other Seasonable Seeds, Bulbs and Supplies. SEND FOR OUR NEW WHOLESALE PRICE LIST IF YOU HAVEN'T A COPY.

HENRY F. MICHELL CO.

518 MARKET ST., PHILADELPHIA



apply Bordeaux Mixture (3-4-50) and arsenate of lead instead of lime-sulphur and arsenate of lead.

Caution.—Where lime-sulphur and arsenate of lead are used in making the third and fourth applications it is often advisable to reduce the strength of the spraying solution during dry, hot, bright sunny weather, in order to prevent burning the fruit. This may be done by using about 1 gallon of the concentrated solution instead of 1½ gallons to 50 gallons of water.

In some orchards and occasionally during some seasons additional sprays are required to produce marketable fruit, but in general the sprayings ordinarily needed are the four outlined above.

PUBLICATIONS RECEIVED.

Fifteenth Annual Report of Frank W. Rane, State Forester of Massachusetts, 52 pp. illustrated.

The American Seedsman, a new publication devoted, as its name states, to the interest of the seed trade, has made its initial bow and will be a welcome addition no doubt to the journals covering the trade.

CATALOGUE RECEIVED.

American Forestry Co., Boston, Mass.—Wholesale Price List, 1919, of evergreens. A very complete list of trees grown at their Little Tree Farms, Framingham, Mass. Profusely illustrated.

Rochester, N. Y.—Joseph Harris Co. have opened a seed store in the Public Market.

SEEDS AND BULBS

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128 Chambers St., N. Y. City

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—The Rosery, 23 Steuben St.
Albany, N. Y.—Danker.

Bangor, Me.—Adam Sekenger, 32 Newbury St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont St.

Brooklyn, N. Y.—Wilson, 3-5 Greene Ave.

Buffalo, N. Y.—S. A. Anderson, 440 Main St.

Buffalo, N. Y.—Palmer's, 304 Main St.

Cambridge, Mass.—John McKenzie, 1927 Mass. Ave.

Chicago—William J. Smyth, Michigan Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid Ave.

Cleveland, O.—Adam Graham & Sons, 5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th St.

Cleveland, O.—The Smith & Fettes Co., 735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643 Broadway.

Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.

East Orange, N. J.—Smith, The Florist.

Fall River, Mass.—Warburton, 495 New Boston Rd. and 36 N. Main St.

Fishkill, N. Y.—Wood Bros.

Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.

New York—David Clarke's Sons, 2139-2141 Broadway.

New York—A. T. Bunyard, 413 Madison Ave., at 48th St.

New York—Dards, N. E. corner 44th St. and Madison Ave.

New York—G. E. M. Stumpp, 761 Fifth Ave.

New York—Kottmiller, 426 Madison Ave. and 49th St., also Vanderbilt Hotel.

Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.

Philadelphia—Chas. H. Grakelow, Broad St. at Cumberland.

Providence, R. I.—Johnston Bros., 33 Dorrance St.

Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave. N.

St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.

Washington, D. C.—Gude Bros., 1214 F St.

Washington, D. C.—George H. Cooke, Connecticut Ave. and L St.

Worcester, Mass.—Randall's Flower Shop, 22 Pearl St.

New York—Thos. F. Galvin, Fifth Ave., at 48th St.

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High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada.
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New Crop, Greenhouse Grown Seed.
Per 100, 45c.; per 1000, \$3.50.

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Per 100 Per 1000 Per 100 Per 1000
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WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Apr. 4	ST. LOUIS Mar. 31	PHILA. Mar. 31
Roses			
Am Beauty, Special.....	75.00 to 100.00	50.00 to 60.00	60.00 to 75.00
" " Fancy and Extra.....	50.00 to 75.00	30.00 to 40.00	30.00 to 50.00
" " No. 1 and culls.....	20.00 to 30.00	12.00 to 20.00	10.00 to 20.00
Russell.....	10.00 to 15.00	4.00 to 25.00	10.00 to 30.00
Hadley.....	10.00 to 15.00	3.00 to 10.00	8.00 to 25.00
Mock, Key.....	4.00 to 12.00	5.00 to 25.00	..... to
Arenberg, Hoosier Beauty.....	4.00 to 12.00	10.00 to 15.00	5.00 to 15.00
Ward, Hillingdon.....	4.00 to 12.00	4.00 to 6.00	..... to
Killarney, Key, Taft.....	4.00 to 12.00	4.00 to 6.00	4.00 to 12.00
Ophelia, Sunburst.....	4.00 to 12.00	4.00 to 10.00	4.00 to 10.00
Carnations			
Cattleyas.....	50.00 to 75.00	50.00 to 75.00	50.00 to 60.00
Lilies, Longiflorum.....	20.00 to 25.00	15.00 to 20.00	20.00 to 25.00
Lilies, Speciosum.....	8.00 to 20.00	..... to .....	..... to
Callas.....	20.00 to 25.00	10.00 to 15.00	15.00 to 20.00
Freesia.....	4.00 to 6.00	3.00 to 4.00	3.00 to 6.00
Roman Hyacinths.....	2.00 to 4.00	3.00 to 6.00	2.00 to 4.00
Stevia.....	..... to .....	..... to .....	..... to
Marguerites.....	1.00 to 4.00	1.50 to 2.00	.50 to 1.50
Lily of the Valley.....	4.00 to 6.00	6.00 to 8.00	..... to
Snapdragon.....	8.00 to 12.00	4.00 to 8.00	5.00 to 15.00
Violets.....	.35 to 1.00	.30 to .40	.50 to 1.00
Narcissus.....	3.00 to 4.00	3.00 to 5.00	6.00 to 8.00
Calendula.....	2.00 to 4.00	2.00 to 4.00	4.00 to 6.00
Sweet Peas.....	1.00 to 3.00	.40 to 1.00	.50 to 2.00
Gardenias.....	..... to 100.00	..... to	30.00 to 40.00
Adiantum.....	1.00 to 1.50	1.00 to 1.50	1.00 to 2.00
Smilax.....	..... to 35.00	2.00 to 25.00	20.00 to 25.00
Asparagus Plumosus, & Spreng. (100 Bchs.).....	35.00 to 50.00	25.00 to 125.00	50.00 to 75.00

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MANUFACTURERS

PHILADELPHIA, PA.

Flower Market Reports

BOSTON Local conditions have improved somewhat due to long distance shipping orders which has helped to move stock and bring about a general clean up nearly every day. The supply has fallen off, however, but the quality of stock received holds up well, especially so in roses. Carnations are plentiful and move readily. What lilies that have been received are poor and not many of them. Violets are still coming in, with not a very active demand. Sweet peas are in good supply and sell readily. Bulbous stock still continues scarce.

The amount of stock **CHICAGO** coming into the Chicago market still continues to increase and only a steady shipping trade, which, so far, has diminished comparatively little, prevents a glut. Southern jonquils are flooding the market with these spring flowers and only low prices can move them all. All kinds of roses, from the miniature varieties to the Mrs. Russell, are to be had in any quantity, however large, and the purchaser on the spot who can handle a very large number may buy at an attractive price. Carnations are also coming in in large lots though they are not seriously ahead of demand, but a good many splits are seen. Violets were received in heavy shipments last week but have decidedly fallen off now and some of the wholesalers consider the violet season as very near its close. Calla lilies are in fair supply. Snapdragons are holding up their record for good stock this spring, some of them being very large and on long stems. Green is not abundant, the southern shipments of asparagus being needed to supply the trade and smilax is very scarce. Ferns are bringing \$5.00 per thousand.

The call for stock is **CINCINNATI** about the same as it was at the last writing. The daily receipts are sufficient to take care of all present calls, and clean up substantially. Shipping business is good. Roses are more plentiful and are now in a supply large enough to go around. Carnations are fairly plentiful. Lilies, rubrum lilies and callas are in a good supply. Sweet peas have shortened somewhat but every immediate want in this line can be taken care of by the receipts. Outdoor daffodils are fairly plentiful. The forced ones are shortening up. Tulips are coming in somewhat better. Other offerings are Narcissus Poeticus, Darwin tulips, iris, freesia, snapdragon, orchids, mignonette, pansies, calendula and forget-me-not.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Mar. 31		CHICAGO Mar. 31		BUFFALO Mar. 31		PITTSBURG Mar. 31	
Roses								
Am. Beauty, Special.....	60.00	to 75.00	50.00	to 60.00	60.00	to 75.00	60.00	to 75.00
“ “ Fancy and Extra.....	35.00	to 50.00	40.00	to 50.00	40.00	to 50.00	35.00	to 45.00
“ “ No. 1 and culls.....	10.00	to 25.00	10.00	to 25.00	10.00	to 20.00	.....	to 18.00
Russell.....	6.00	to 20.00	8.00	to 35.00	6.00	to 20.00	8.00	to 30.00
Hadley.....	6.00	to 20.00	15.00	to 25.00	6.00	to 10.00	.....	to 10.00
Euler, Mock.....	15.00	to 25.00	15.00	to 25.00	5.00	to 8.00	8.00	to 20.00
Arenberg, Hoosier Beauty.....	4.00	to 15.00	6.00	to 25.00	6.00	to 15.00	.....	to 10.00
Ward, Hillingdon.....	6.00	to 15.00	5.00	to 15.00	4.00	to 6.00	6.00	to 18.00
Killarney, Key, Taft.....	6.00	to 15.00	5.00	to 15.00	5.00	to 18.00	6.00	to 15.00
Ophelia, Sunburst.....	6.00	to 20.00	8.00	to 20.00	6.00	to 12.00	8.00	to 20.00
Carnations	4.00	to 8.00	2.00	to 5.00	2.00	to 5.00	4.00	to 6.00
Cattleyas.....	5.00	to 25.00	50.00	to 60.00	60.00	to 75.00	50.00	to 60.00
Lilies, Longiflorum.....	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00	15.00	to 25.00
Lilies, Speciosum.....	6.00	to 10.00	.....	to 10.00	5.00	to 10.00	.....	to 10.00
Callas.....	12.50	to 15.00	15.00	to 20.00	15.00	to 25.00	12.00	to 20.00
Freesia.....	4.00	to 6.00	3.00	to 6.00	3.00	to 5.00	3.00	to 5.00
Roman Hyacinths.....	.....	to 4.00	4.00	to 4.00	4.00	to 6.00	3.00	to 5.00
Stevia.....	.....	to 1.00	.....	to 1.00	.....	to 1.00	.....	to 1.00
Marguerites.....	.....	to 1.00	1.00	to 2.00	.50	to 2.00	1.00	to 3.00
Lily of the Valley	6.00	to 8.00	5.00	to 6.00	8.00	to 10.00	.....	to 6.00
Snapdragon	6.00	to 10.00	10.00	to 15.00	8.00	to 10.00	6.00	to 8.00
Violets	1.00	to 2.00	.50	to 1.00	.75	to 1.00	.75	to 2.00
Narcissus	4.00	to 5.00	3.00	to 5.00	4.00	to 5.00	4.00	to 6.00
Calendula	4.00	to 5.00	3.00	to 5.00	3.00	to 5.00	.....	to 5.00
Sweet Peas	1.00	to 2.00	1.00	to 3.00	.75	to 2.00	.75	to 3.00
Gardenias.....	.....	to 25.00	25.00	to 30.00	15.00	to 20.00	.....	to 20.00
Adiantum	1.00	to 2.00	1.00	to 1.50	1.00	to 2.00	.....	to 2.00
Smilax	20.00	to 25.00	20.00	to 25.00	20.00	to 25.00	.....	to 25.00
Asparagus Plu. & Spren. (100 Bhs.)	50.00	to 75.00	25.00	to 100.00	35.00	to 50.00	25.00	to 60.00

There was no **PHILADELPHIA** marked activity in the cut flower market here last week and generally the condition is reported to have been a little slow. American Beauty roses continued in good supply and cleaned up fairly well at regular prices. Other roses were more plentiful and dropped a little in price, especially on the shorter grades. Russell, Ophelia and the Killarneys were in strong force and some varieties like Jonkheer Mock and Ward that have been off crop, are now showing up again in good shape. The carnation market is not quite so brisk as it has been. Sweet peas continue a leading feature, plentiful and of very fine quality. The light blue delphinium (Belladonna) continues in fine form as does the Tangiers Iris (tingitana) and the snapdragons. The latter are to be had in all colors, white, yellow, pink, etc., and show good long spikes and excellent finish. Not so many orchids arriving but enough for the demand, and prices remain steady. Greens market a little easier.

Business during the past week has been exceptionally good with a heavy demand for funeral work. Roses of almost every variety cleared nicely. Carnations of good quality are plentiful and some excellent pink, lavender and white orchid sweet peas are in good demand. Snapdragon find ready sale as do some very good callas. Mignonette, forget-me-nots, calendula, wall flowers, freesia, poeticus, Roman hyacinths, narcissis, daffodils and tulips are used extensively in basket arrangements with pussy willows. A big supply of bulbous plants are on the market and cineraria, spirea and hy-

drangia plants are easily disposed of. Greens of all kinds are more plentiful.

For the past week all **ST. LOUIS** kinds of stock has been plentiful, carnations especially so, and prices are lower in consequence. Roses also are cheaper but still are holding at good prices. Large shipment of sweet peas have been received and prices on these have dropped somewhat. Bulbous stock is letting up and violets are about over but there may be a few on the market for Easter if the weather remains cool.

The warm days of **WASHINGTON** early last week caused the market to be flooded with stock of all kinds. At the same time the demand fell off very materially as is usually the case during Lent. It has been a buyer's market all week, with purchases very light. Sweet peas and carnations are good only on the day they are cut. The former are coming in such quantities the wholesalers are unable to care properly for their consignments. Violets are still to be had in fair shape. A larger number of pansies are being marketed this year than ever before.

NEWS NOTES.

Mamaroneck, N. Y.—The Hallett greenhouses on Palmer avenue have been leased by F. H. Godfrey.

Detroit, Mich.—The greenhouses and business of Chas. Warncke, 2445 W. Fort street, have been taken over by the Canfield florists.

Montebello, Cal.—The greenhouses and nurseries of Jacob Dietreich covering over 30 acres, have been purchased by Roy F. Wilcox, of Council Bluffs, Ia.

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WHOLESALE FLORISTS
55-57 West 26th Street
Telephones, 12-2510 Madison Square **Consignments Solicited**
MAURICE L. GLASS, Treasurer

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Part of Week ending Mar. 29 1919		First Part of Week beginning Mar. 31 1919	
American Beauty, Special	25.00	to 50.00	25.00	to 40.00
" " Fancy and Extra	10.00	to 25.00	10.00	to 25.00
" " No. 1 and culls.	3.00	to 10.00	3.00	to 10.00
Russell,	4.00	to 25.00	4.00	to 20.00
Hadley,	4.00	to 50.00	4.00	to 40.00
Euler, Mock, Key	3.00	to 15.00	3.00	to 15.00
Arenberg, Hoosier Beauty	2.00	to 10.00	2.00	to 10.00
Ward, Hillingdon	2.00	to 15.00	2.00	to 10.00
Killarney, Taft	3.00	to 8.00	2.00	to 6.00
Ophelia, Sunburst	2.00	to 12.00	2.00	to 12.00
Carnations	2.00	to 6.00	2.00	to 6.00

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40 STATE STREET . . BOSTON
Telephone Main 55

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Local and General News

BOSTON.

Thos. J. Grey, one of our best known seedsmen, has gone to California on the advice of his physician. Mr. Grey was for many years head of the Thos. J. Grey Co., but has for the past few years been associated with Joseph Breck & Sons.

The Weather Bureau records April 1 as the coldest in 45 years, and the wholesale slaughter of early buds at the Arnold Arboretum attests to the report. The loss incurred by the belated cold snap is most disconcerting to those who looked forward to a record season. Crabapple trees, plum trees and cherry trees are the chief sufferers.

One of the largest and most enthusiastic meetings of florists held in Boston in recent years was held at the Boston City Club on Tuesday evening. Included in the gathering were wholesalers, retailers, growers and salesmen. The meeting was called together for the purpose of discussing the founding of an organization to further the commercial interests of the floral business throughout New England. Wm. H. Elliott, Patrick Welch, Henry Penn and others spoke enthusiastically over the benefits to be derived from such an organization and it was unanimously voted that it should be formed and the following officers were elected: President, Henry Penn; vice-president, Wm. H. Elliott; treasurer, W. C. Stickel; financial secretary, Frank Edgar; recording secretary, Elijah Gorney; Patrick Welch, Fred E. Palmer, J. M. Cohen, Henry M. Robinson and George Arnold, board of directors.

PHILADELPHIA.

John Dunn, supt. on the Edgar T. Scott estate, Lansdowne, Pa., has accepted a position in a similar capacity with Mrs. Wm. A. Reed, "Purchase," White Plains, N. Y. He has been on the Scott estate for the past six years, succeeding the late Joseph McGregor, and during that time made many wonderful improvements on the old place and also distinguished himself signally at the flower shows in Philadelphia and elsewhere during his sojourn here. He leaves this vicinity with the heartiest good wishes of all in the trade. He is a young man in years yet but ripe in knowledge and we will be looking to hear from him as time rolls on.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Part of Week ending Mar. 29 1919			First Part of Week beginning Mar. 31 1919		
Cattleyas.....	20.00	to	50.00	20.00	to	50.00
Lilies, Longiflorum.....	10.00	to	15.00	10.00	to	20.00
Lilies, Speciosum.....	.....	to	.....	.....	to	.....
Callas.....	8.00	to	25.00	8.00	to	25.00
Freesia.....	1.00	to	3.00	1.00	to	2.00
Roman Hyacinths.....	1.00	to	2.00	1.00	to	3.00
Stevia.....	.....	to	.....	.....	to	.....
Marguerites.....	1.50	to	4.00	1.00	to	4.00
Lily of the Valley.....	1.00	to	4.00	2.00	to	4.00
Snapdragon.....	6.00	to	16.00	8.00	to	16.00
Violets.....	.20	to	.50	.25	to	.50
Narcissus.....	3.00	to	6.00	3.00	to	5.00
Calendula.....	1.00	to	4.00	1.00	to	4.00
Sweet Peas.....	1.00	to	4.00	1.00	to	3.00
Gardenias.....	12.00	to	35.00	12.00	to	35.00
Adiantum.....	.....	to	1.00	.....	to	1.00
Smilax.....	15.00	to	25.00	15.00	to	25.00
Asparagus Plumosus, & Spreng. (100 bunches).....	15.00	to	25.00	15.00	to	25.00

The old heathen gods have certainly been after us this week. Thursday old Jupe Pluvo poured it on us in oceans as much as to say, "ha ha, cold water for yours now, boys." The water has stopped, but most of us caught colds from it. There's always a morning after, no matter whether it's prohibition or the other thing. Then, Friday and Saturday, old Boreas got busy and pretty near blew us all off the map, chimney stacks, signs, windows, greenhouses, trees, autos, went flying in all directions. Even a stout heavily built person had to be well loaded to hold down to solid earth.

Items like these could be mentioned by the thousands:

For a century or more the mammoth elm standing as a silent sentinel at the Sansome street approach of Independence Square has braved the storms of winter and offered a generous shade to the visitors at the shrine of liberty in the heat of summer, but last night it crashed to earth when a particularly terrific blast of the March wind singled it out for an onslaught.

James Elder, forty years old, a gardener at the Presbyterian Hospital, Thirty-ninth street and Powelton avenue, was thrown to the ground and suffered bruises above his ankles when a ladder was blown from under him by the wind last night. He was trimming a tree in the hospital garden.

And as for the greenhouse damages—they are too numerous to mention in our limited space.

CHICAGO.

Lewis & Rocca had the formal opening of their new store at 55 E. Jackson Boul. March 27th. Large display plants and colonial bouquets were special features.

Mrs. Chas. McKellar left for Toledo, O., Sunday, to take part in the American Bowling Congress tournament. She is known as an expert player and was a member of the winning team last year.

Percy Jones has rented the store recently vacated by Hoerber Bros., in

the Atlas Block, and took possession Thursday. This building is a favorite with florists and all the rooms are now filled.

Mr. and Mrs. Robert Groves of Adams, Mass., are in Chicago, combining business and pleasure. Mr. Groves is a heavy shipper of ferns to this city, putting them in cold storage here last summer, and he is here now to see to the disposal of his stock.

The American Bulb Co. received a shipment of 20,000 Baby Rambler rose plants from Holland and sold them all within three days last week. Mr. Miller, president of the company, says the retail trade also is very active now with flower seed sales in the lead.

O. A. & L. A. Tonner are enlarging their wholesale store in the Atlas building, having rented the next store east. The partition is being removed and when completed, the extra space will be used for florists' supplies, of which this firm carries a large stock. Since their start three years ago the Misses Tonner have twice enlarged their space and now have rooms 204-5-6.

A. Henderson Seed Co. report the spring counter trade as nicely under way and that there is a demand for flower seeds so far equal to the call for garden seeds. For the last two years the high cost of living and the boom given to home gardening have advanced the sales of the garden seeds, but this year the ornamental seem to be coming into their own again.

At the spring opening of Marshall Field's this week, the large flags that have been a familiar sight in the

PALMS TO HIRE: For decorations at reasonable rates. Many will find it cheaper and better to avail themselves of our stocks rather than buying outright. Write, phone or wire. **AUGUST WANJEK**, 2613 Lehigh Ave., Philadelphia. Specialist. Flowers and Decorations. Auto Service.

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World's Oldest and Largest
Manufacturers of

FLOWER POTS

WHY?

A. H. HEWS & CO., INC.

Cambridge, Mass.

arches of the main aisles for the past year, have been replaced by dozens of shallow hanging baskets three feet in diameter, filled with artificial flowers and foliage. Natural ferns and other plants were used also, many hundreds being necessary to beautify the big store.

ROCHESTER, N. Y.

Rochester Floral Co. has received its first Easter order from overseas.

Miss B. Webber, formerly of Rochester Floral Co., has taken a position with James Vick Sons.

Most of the florists of the city had a very busy Wednesday and Thursday of this week in arranging floral pieces for the funeral of one of Rochester's most prominent physicians, Dr. F. R. Smith. Wreaths, blankets and various other pieces were arranged.

WASHINGTON.

William F. Gude is recovering from a nervous breakdown and will leave shortly with Mrs. Gude for a well-earned rest.

The Florists' Club will hold a Victory banquet on April 9th. The committee in charge consists of Geo. C. Shaffer, Z. D. Blackistone, Fred H. Kramer, Otto Bauer and Clarence L. Linz.

CINCINNATI.

Nick Weron, who has been connected with the Rosebank Company, has purchased their place.

The daffodil blooms at the Krippendorf Farm at Perintown, Ohio, attracted many motorists last week.

P. J. Olinger, who has been down with the "Flu," is recovering and expects to be back at his desk the first of the week.

Buffalo, N. Y.—Henry H. Elbers, deputy superintendent of parks, has filed his resignation with Commissioner John F. Malone to take effect April 1. Mr. Elbers will engage in the seed and bulb business.

CLASSIFIED DIRECTORY

Advertisements in this Department, Ten Cents a Line, Net

BULBS

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

CANNAS

For the best Up-to-Date Cannas, get new price list. THE CONARD & JONES CO., West Grove, Pa.

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Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 postpaid. I. L. PILLSBURY, Galesburg, Ill.

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Strong rooted cuttings of Oconto, Harvard, Glow, Razer, Polly Rose, Yondota, Helen Lee, Chieftain, Chrysolora, and all standard sorts. \$2.00 per 100, \$15.00 per 1000. Ready now. Order today.
I. M. RAYNER, Greenport, N. Y.

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Peony Dahlia Mrs. Frederick Grinnell.
\$10.00 per clump. Cash with order.
JOHN P. ROONEY, New Bedford, Mass.

New Peony Dahlia—John Wanamaker
Newest, Handiest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

GLASS.

Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

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Iris Purple Lace; a deep pansy purple self, the prominent white haft, laced with purple and a curved shape that gives an appearance of unusual width are distinctive. It proves very attractive to the visitor. 30 in. 30 plants, \$15.00. In Iris time select a Seedling for introduction. THE GLEN ROAD IRIS GARDENS, Wellesley Farms, Mass.

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HASSALL & CO., Orchid Growers and Raisers, Southgate, London, England. Cattleyas and Laello-Cattleyas our specialty. One trial order solicited.

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Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

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Live Sphagnum moss, orchid peat and orchid baskets always on hand. LAGER & HURRELL, Summit, N. J.

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Just Arrived, crop 1918 winter flowering SWEET PEAS, New Zealand grown, the large flowering waved or Spencer type. We have been very fortunate to secure the entire crop of one of the best growers in New Zealand. New Zealand grown seed has always produced the earliest and best blooms, and seed started in August will produce flowers from Thanksgiving until March; requiring a low temperature, these make an ideal crop for the Florist this year. Scarlet, always a good seller. Finest Mixture, all the best colors. Pink and White, Blanche Ferry type. Yarrowa (true), bright rose pink with light wings. Write for further particulars.
JULIUS ROEHRS CO., Rutherford, N. J.

VINES

Flowering and Foliage Vines, choice collection. Large Specimen, Pot and Tub grown for immediate effect; also Climbing Roses. J. H. TROY, Mount Hissarlik Nursery, New Rochelle, N. Y.

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WILLIAM E. HEILSCHER'S WIREWORKS, 264 Randolph St., Detroit, Mich.

HELP WANTED

WANTED: Outside Foreman, young or middle aged man who is willing to locate near New York City, one who knows trees, shrubs and hardy plants to take charge of place and wait on customers. Address M. A. W., care HORTICULTURE.

WANTED—A bright, intelligent and industrious young man of neat appearance, for general greenhouse work in a retail place. Wages \$25.00 per week to begin with; willing to increase this, to one who is a good worker and quick at potting, also showing ability. Steady position. References required. Address P. M. OLM, Bath, Me.

WANTED a man for general greenhouse work, one that understands watering and potting; steady position. A. LEUTHY & CO., Florists, Perkins St., Roslindale, Boston, Mass.

FOR SALE

FOR SALE—A large, increasing and profitable retail flower business that has been established 45 years in the growing city of Peabody. The office or shop is 20 x 28 and contains more essential equipment than most stores in the large cities. A greenhouse, opening from the store, enables the display and keeping of plants. An investigation will prove that the stand and patronage is a splendid opportunity. J. M. WARD & CO., 47 Warren St., Peabody, Mass.

Horticultural Books

For Sale by

HORTICULTURE PUBLISHING CO.

Chrysanthemum Manual. Elmer D Smith	\$0.50
The Chrysanthemum. Herrington .....	.50
Commercial Carnation Culture. Dick	1.50
Commercial Rose Culture. Holmes	1.50
Violet Culture. Galloway	1.50
Greenhouse Construction. Taft	1.50
Sweet Peas up to Date. Korr	1.50
Plant Propagation, Greenhouse and Nursery Practice. Kains	1.50
Plant Pruning. Kains	1.50
Book of Garden Plans. Hamblin	2.00
Landscape Design. Hubbard	6.00
The Art of Outdoor Rose Growing. Thomas	6.00
The Home Vegetable Garden. Krumm	1.00
Vegetable Gardening. R. L. Watts	1.75
Parsons on The Rose	1.00
Principles of Floriculture. E. A. White	1.75
Foundations of American Grape Culture. Munson	2.00
Plant Materials of Decorative Gardening. Trelease	1.00
Aristocrats of the Garden. Wilson	5.00
Bailey's Cyclopaedia of Horticulture, 6 volumes	36.00



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THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS, TENNIS COURTS, DRIVEWAYS, ETC.

This fluid destroys weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

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Save your plants and trees. Just the thing for greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrips, Red Spider, Black and Green Fly, Mites, Ants, etc., without injury to plants and without odor. Used according to direction, our standard Insecticide will prevent ravages on your crops by insects.

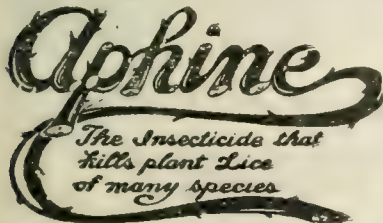
Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

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½ Pint, 30c.; Pint, 50c.; Quart, 90c.; ½ Gallon, \$1.50; Gallon, \$2.50; 5 Gallon Can, \$10.90; 10 Gallon Can, \$20.00. Directions on package.

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The Recognized Standard Insecticide. A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$2.50.

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For mildew, rust and other blights affecting flowers, fruits and vegetables.

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For eel worms, angle worms and other worms working in the soil.

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The HOSE for the FLORIST

¾ inch, per ft., 19 c.

Reel of 500 ft., 18 ½ c.

2 Reels, 1000 ft., 18 c.

¾ inch, " 16 c.

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Couplings furnished without charge

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Cincinnati, O.—J. R. Peterson & Sons, house 32 x 128.

Marion, Pa.—Henry I. Faust, Lord & Burnham house 24 x 201.

Dothan, Ala.—Dothan Flower Shop, range of L. & B. houses.

Edmonton, Alberta, Can.—Emery Floral Co., Ltd., additions.

North Milwaukee, Wis.—Kamp & Spinti Floral Co., house 18 x 150.

Fall River, Mass.—Wood & King, 72 Jefferson street, 50 ft. addition. John Pee, addition 64 x 60.

Maywood, Ill.—Weiss-Spanikow Co., range of houses. A. F. Amling Co., addition to service building.

PATENTS GRANTED.

No. 1,293,092, Seed Planter, Joseph M. Hartman, Yardley, Pa.

No. 1,293,568, Seed Drill Attachment, William Staver, Urbana, Ind.

No. 1,293,603, Seed Planter, Charles E. Woolridge, Jeromeville, Ohio.

No. 1,293,745, Weeder, John L. Florin, Davenport, Wash.

No. 1,293,785, Window Flower Box, Albert E. Hurst, New York, N. Y.

No. 1,293,824 Weed Puller, Louis H. Ludwig, Waukegan, Ill.

No. 1,294,231, Weeding Tool, LeRoy Burch, Cedar Rapids, Iowa, assignor to Mary V. Burch, Cedar Rapids, Iowa.

No. 1,294,614, Garden Hoe and Weeder, Earl Canary, Myrtle, Idaho.

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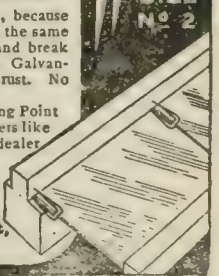
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Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

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Lecturer on Horticulture, Columbia University

Few practices in the handling of plants, especially fruit bearing plants, attract so much interest as do those of pruning. The methods are so varied, the results so diverse, and the opinions of growers so apparently contradictory that this subject is always one of the most interesting, and the surest to hold attention and arouse discussion.

Particularly during the last ten or fifteen years when the principles of plant physiology have been more and more satisfactorily applied to plant production and management has interest settled in pruning. During the latter half of this time also more and more investigations and tests have been conducted by experiment stations and other workers to test out methods and principles in the interest of science and for the benefit of growers. The accumulation of such new knowledge has become very considerable especially in the last decade, but it is necessarily so scattered that very few growers have access to it, hence the demand for a book, which shall present the really important features of these investigations as well as set forth the fundamental principles based upon the laws of plant growth.

This volume is lavishly illustrated mainly by actual photographs of specimens which show good and bad practices. The author has spared neither time nor expense in gathering his photographs, each one of which tells its story.

After a few pages of introduction the author discusses Plant Physiology as related to pruning. A chapter takes up the Philosophy of Pruning, itself a very interesting subject. Then follows a classification and clear discussion of Buds, very fully illustrated from life. How Wounds Heal is an exceedingly interesting chapter, as are also those on Prevention and Repair of Mechanical Injuries Pruning Nursery Stock, Young Trees, Mature Trees and Odd Methods of Pruning and Training, Rejuvenating Neglected Trees and Practical Tree Surgery.

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By **M. G. KAINS**

We have had many inquiries from time to time for a reliable and up-to-date book on plant propagation, but were always at a loss to find any publication that we could recommend. The subject has been dealt with in fragmentary manner only in books that have come to our notice. So it is well that this new work has been issued, especially as it is both comprehensive and practical, and it should meet with a ready sale among plantmen, nurserymen and gardeners. There are nineteen chapters covering in detail topics of germination and longevity of seeds, propagating by buds, layering, cuttings, grafting, etc., fruit tree stocks, scions, etc., and there are eight pages of condensed cultural instructions in tabulated form, covering annuals and perennials from seed, woody plants, evergreens, vines, bulbs and tubers, greenhouse and house plants, ferns, palms, water plants, orchids and cacti. The illustrations are numerous, comprising 213 figures and halftone plates. There are 322 pages well bound and on heavy paper, teeming with helpful information. It is a book which no cultivator can afford to do without. It is worth many times its price. Copies can be supplied from the office of *HORTICULTURE* at publisher's price, \$1.50.

HORTICULTURE PUBLISHING CO.
147 Summer St., Boston, Mass.

HORTICULTURE

Vol. XXIX

APRIL 12, 1919

No. 15

THE NEW POMPON CHRYSANTHEMUMS

CHRISTMAS GOLD NOVEMBER PEARL
BECKY McLANE

THE NEW SINGLES

MRS. E. M. HORNE MOLLY WHITMORE
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ROSALIND and SILVIA

The stock has been carried over in cold houses during the winter, and is now in practically dormant condition. The plants are very strong and healthy, and can be planted at once, if the houses are ready, or can be shifted into 4-inch pots for later planting. They will make splendid stock, especially for early planting, as they are very strong and healthy, and are ready to make a strong growth. We offer the stock as long as unsold at the prices named below.

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Awarded first prize at the International Flower Show, New York, in March, 1917, for best new rose.

Awarded additional silver medal at same show for display of Rosalind.

Awarded silver medal by the Horticultural Society of New York.

Awarded silver medal by the Tarrytown Horticultural Society.

Awarded, also, numerous certificates.

Strong plants, 2 1/4-inch pots, \$150.00 per 1,000.

Extra heavy plants, 3 1/2-inch pots, \$20.00 per 100.

SILVIA (Yellow Ophelia)—This is another Beautiful sport of Ophelia which originated with us. The buds are long and pointed, and are a beautiful sulphur-yellow, which changes to creamy yellow as the flower opens, and when fully developed are pure waxy white. It is a flower of unusual size when fully expanded—five inches in diameter. It resembles the popular hardy climber Silver Moon, showing the same pronounced cluster of yellow stamens in the center. Exquisite in bud and unusually distinct and unique in the open flower.

Extra strong plants, 3 1/2-inch pots, \$20.00 per 100.

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With our Stock Seed Farm at Grass Lake, Mich., and our growing stations in every part of the United States where seeds are grown successfully, all in charge of capable and experienced men, we are equipped for and are producing

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BEEF, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety; also other items of the short crop of this past season as well as a full line of Garden Seeds, will be quoted you upon application to

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Special Gladioli Order

AMERICA	\$22.00
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LIST OF ADVERTISERS

Page	Page	Page	Page	Page
Advance Co.....363	Cooke, Geo. H.....356	Haendler, M. P.....349	McKenzie, John.....357	Reed & Keller.....360
Allen, J. K.....360	Conard & Jones.....349	Hart, Geo. B.....358	Michell, H. F. Co.....350	Reidel & Meyer.....360
American Bulb Co.....338	Cowee, W. J.....358	Heistad, H.....363	Michigan Cut Flower Ex.....358	Reid, Edw.....358
American Forest-try Co.....349	Craig Co., Robt.....339	Hess & Swoboda.....357	Miltoia Conservatory.....348	Reuter, L. J. Co.....340
Anderson, S. A.....357	Danker.....356	Hewes & Co., A. H.....362	Murray, Samuel.....355-356	Rice & Co., Jerome B.....338
Aphine Mfg. Co.....351	Dards.....356	Hill Co., E. G.....358	Nicotine Mfg. Co.....363	Robinson, Henry M. Co.....360
Barrows, H. H.....339	Dreer, H. A.....340-363	Hill, D. Nursery Co.....349	Niessen, Leo Co.....358	Robinson, H. M. & Co.....358-361
Bay State Nurseries.....339	Dunlop, John H.....357	Howard, W. D.....348	N. Y. Botanical Gardens.....348	Roehrs, J. Co.....340
Bobbink & Atkins.....339	Dwelle - Kaiser Co.....363	Irwin, R. J.....338	Old Town Nurseries.....349	Roland, Thomas.....348-357
Boddington Co., Inc., A. T.....350	Dysart, R.....360	Johnston Bros.....356	Palmer, W. J. & Son.....357	Rosery, The.....356
Boligiano & Son.....358	Edgar Co., W. W.....340	Kasting, W. F. Co.....358	Park Floral Co.....357	Ross, F. M.....357
Boston Floral Supply Co.....353-360	Edwards Folding Box Co.....358	Kelway & Son.....338	Parshelsky Bros.....363	Sekenger, Adam.....356
Breck, J. & Sons.....338	Elm City Nurseries.....349	Kervan Co.....360	Penn the Florist.....354-356	Sheridan, W. F.....360
Breitmeyers, J. J. Co.....338	Farquhar, R. & J. Co.....338	Knoke Bros.....357	Pennock, S. S. Co.....337	Siebrecht, Geo. C.....360
Budlong, J. A.....358	Fengar, E. W.....339	Kroeschell Bros.....363	Pino-Lyptol Chemical Co.....351	Siggers & Siggers.....362
Bunyard, A. T.....356	Ford, M. C.....360	Kuebler, W. H.....360	Pierce Co., F. O.....363	Skidelsky, S. S. & Co.....338
Burnett Bros.....338	Ford, W. P.....360	Kottmiller.....356	Pierson, A. N.....337	Smith, Elmer D. & Co.....339
Burpee, W. A. & Co.....338	Froment, H. H.....360	Lager & Hurrell.....339	Pulverized Manure Co.....351	Smith, W. & T. Nursery Co.....349
Carter's Tested Seeds, Inc.....338	Galvin, Thos. F.....357	Lemon Oil Co.....351	Randall Flower Shop.....357	Smith, The Florist.....357
Childs, John Lewis.....349	Gasser Co., J. M.....357	Liggit, C. U.....339		Smith & Fettes Co.....357
Clarke, D. Sons.....356	Graham & Son, A.....357	Lord & Burnham Co.....364		Smyth, Wm. J.....357
Coan, J. J.....360	Grakelow, Chas. H.....357	MacGregor, J.....363		Snyder, B. A. Co.....347
	Grey & Co., T. J.....338	McHutchison Co.....339		
	Gude Bros. Co.....356	Marshall, W. E. & Co.....338		

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THE GARDENER AND HIS WIDE FIELD OF ENDEAVOR

By William Falconer

Don't think I am not a gardener, for I am. I was born in it, apprenticed to it, it has been my lifelong vocation and I love it. And don't think that because I am now buried in a cemetery my interest in gardening has ceased or lessened, far from it. I am as vitally concerned in flowers, fruits and vegetables, in landscape work and decorative gardening today as I ever was, but necessarily in a more limited field than formerly. At the same time my mind and soul are with you in your calling.

Among the many occupations of men, gardening has an interest and charm exceeded by none; there is a spirit of fraternal fellowship among practical gardeners never approached in any other calling. There is a growing and permanent fondness and fascination about it no other work approaches. This being so we naturally expect and find among gardeners a superior, congenial and kindly-hearted people. Adam, the world's first gardener, was put "into the Garden of Eden to dress it and to keep it," and ever since this has been the work allotted to us. Pretentious gardens, however, are too few to provide lucrative enough employment for all of us, hence many have branched into other lines of horticulture, but all akin, as landscape, seed, experiment, nursery, truck, florist and forestry, and these again are subdivided into specialties, according to the fitness, taste, sagacity and opportunity of the man himself, and in most cases very successfully.

Gardeners should visit each other professionally and socially, it will make them happier with themselves and more contented with their surroundings. No matter how good a gardener a man may be if he never goes away from home or out among his fellow craftsmen he is apt to get stiff and self-satisfied. There is nothing that will display to ourselves our professional shortcomings so vividly as mingling with other gardeners, home or distant, and seeing and knowing what they are doing. We then realize that we don't know everything, our neighbors know something, too.

Gardeners' clubs and kindred associations have done and are doing much to brighten our lives, they are happy gatherings, there we meet our brothers in trade, extend our acquaintanceship, form friendships, see and know what each other is doing and "enter into that noble contention or rather emulation of who best can work and best agree." Every gardener should join the home club and attend its meetings, give and ask for information, and show in flowers, fruits and vegetables, what he is growing at home and tell how he does it.

So far as we consistently can we should also attend the state or national convention or association meetings of gardeners. Of course this costs money. But our employers should send us there paying our expenses. From what one would see and hear at these meetings and glean from observation at the several gardens visited at the city where the convention is held or at stop-over places to or from that destination, he is a blind man, indeed, who cannot absorb enough useful information to profitably apply to his own charge at home to more than compensate for what the trip may cost.

A gardener is naturally a reader. Our vocation is so varied in detail it behooves every progressive, ambitious man to keep posted in the subject of his work. We have many good books on gardening—general, special and reference, and it is a pleasure to delve into them;

we also have excellent periodical literature on garden, florist and other horticultural matters. We peruse these papers for opportune subjects and to keep posted as regards news, timely practical matter, varieties of plants and flowers, etc., in fact, we eagerly await their coming and at once plunge into their pages. This is one of the reasons why gardeners are so well posted, so versatile and critical. Now, if we profit so much from the information contained in these papers, are we not forbidden to "light a candle and put it under a bushel?" If so, then jot down any little thought that may come to you which would be of benefit to any other gardener and send it to the editor. Don't growl at the shortcomings of the paper, get out your own pencil and tell what you yourself know and be happy in helping another for "it is more blessed to give than to receive" even as to information about plants or flowers.

When it comes to professional gardeners who have launched into commercial life, making a success of it, their names are many. We have John N. May, the rose grower, and Charles H. Totty, the new plant specialist of New Jersey; William Nicholson, the carnation grower, and Thomas Roland, of Massachusetts, whose splendid acacias and heather are a special feature of our Metropolitan flower shows; W. A. Manda, of New Jersey; the Farquhar brothers, of Massachusetts; our own Sam McClements, of Pennsylvania; Adam Graham, of Ohio; Walter W. Coles, of Indiana; Fred L. Atkins and William H. Duckham, New Jersey, and many more. Among those who have taken to practical botanical work are James Gurney, of St. Louis; Peter Bisset, of Washington; Robert Cameron, of Harvard; the illustrious E. H. Wilson, of Chinese renown, now of the Arnold Arboretum; G. H. Pring, of the Missouri Botanical Gardens, and M. Free, of the Brooklyn Botanic Garden. And although gone, but never to be forgotten I cannot omit my dear old friend and crony, the late William R. Smith, of Washington, than whom, among those who have passed away, next to the late Peter Henderson, he was the most widely known and beloved gardener in America.

Michael Barker, of Chicago, graces the editorial chair, and in this line surely no man in the country shone more brightly than the late J. Harrison Dick, of New York.

Prominent park superintendents who in earlier life were trained practical gardeners are not numerous, but standing head and shoulders over most of them rank Theodore Wirth, of Minneapolis, and John Dunbar, of Rochester, both trained gardeners.

Among the great cemeteries of the country several of the superintendents are trained practical gardeners, to wit: John Reid, of Detroit; Robert Campbell, of Louisville; James Currie, of Milwaukee, and William Salway, of Spring Grove, Cincinnati. The superintendents of four of the largest cemeteries in Pittsburgh are apprenticed-trained practical gardeners! They are Hopton, of West View; Youden, of Uniondale; Allen, of Homewood, and myself, of Allegheny, and each man of us has a mighty good job.

The above will show that there is a wide field for gardeners in this country both in plain gardening and its many ramifications. What we want is brains, executive force, strict application to work and business, economy and steadiness. And I would like to add both for utility and as an accomplishment, a wide knowledge of plants, hardy and tender, wild and cultivated.

HORTICULTURE

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CONTENTS

Page

THE GARDENER AND HIS WIDE FIELD OF ENDEAVOR— <i>William Falconer</i>	341
SOCIETY OF AMERICAN FLORISTS: The 1919 Convention—Life Membership—National Publicity Campaign—Bowling Tournament at Detroit	343-344
"SHIPS" BALLAST NOT AN IMPORTANT SOURCE OF INTRODUCING PLANT ENEMIES?— <i>M. C. Ebel</i>	344
CLUBS AND SOCIETIES: The American Rose Society	345
Commercial Flower Growers of Chicago	346
GREENHOUSE FERNS— <i>B. C. Tillett</i>	346
OBITUARY—Henry Hansen	349
SEED TRADE: Catalogue Sizes	349
Observations on European Seed Conditions	350
LOCAL AND GENERAL NEWS: Boston, Cincinnati	349
Chicago, St. Louis, Rochester	352
Philadelphia	354
OF INTEREST TO RETAIL FLORISTS: A Good System	348
Flowers by Telegraph	356
New Flower Stores	357
FLOWER MARKET REPORTS: Boston, Chicago, Cincinnati	359
Philadelphia, Rochester	361
St. Louis	362
MISCELLANEOUS: The Blue Linums	344
Flowers in Poetry— <i>Hugh Balfour</i>	344
Tulips Illustrated	345
A Progressive Step by a Progressive Concern	348
New Corporations	348
Visitors' Register	349
Greenhouses Building or Contemplated	362
Patents Granted	362

influence on the market. Growers will realize handsomely this Easter and they are entitled to do so.

Bad packing HORTICULTURE is having its attention called to the bad condition of packing of Boskoop and other Holland nursery stock now arriving in this country. Cases are being charged for generally at a price of six dollars or over apiece which must be approximately three times the cost to build them in Holland. Then we are told this year that they are insufficiently filled, the plants becoming loose in the cases in transit and consequently badly smashed up. Not only are more cases used up in the packing unwarrantably but because of their additional bulk the importer is mulcted with vastly greater freight charges because of the unnecessarily increased tonnage. Evidently there is a vast profit in cases although they are ostensibly charged for at cost and the temptation to use them in excess of actual requirements is too great for the avaricious Holland nurseryman to forego. This appears to be his last chance and he is bent on making the most of it.

Holland bulb salesmen hit by quarantine There are quite a number of our annual visitors from the Holland Bulb district now here and others due to arrive.

The growers trading in this country have formed a combination with uniform fixed prices on the leading varieties of hyacinths, tulips and narcissi for the American trade. It is not at all likely that like prices have been made for other countries since most of them, in former years, enjoyed lower prices from the bulb men than we did. A comparison of the catalogues of almost any of the larger growers printed in English with that printed in German in the same year disclosed the fact that the Germans had a decided advantage in the prices made to them. Notwithstanding greatly advanced prices this year to American purchasers the aggregate of the sales of the Dutch salesmen will be much less than even that of last year. There is a limit to the prices that the grower here may justifiably pay for bulbs and the present is no time to take long chances. Carnations and roses are our staples of the flower market and involve small risk. Then by Quarantine 37 Spanish and Dutch irises are cut off—there is no valid reason why these bulbs, smooth and innocent as tulips, should be barred yet they are—and this will lessen the sales by thousands of dollars. Then there are other bulbs such as snowdrops, scillas, chionodoxas, gladioli, etc., having clean smooth surfaces shut out for no quarantine reason whatsoever for they are absolutely innocent of conveying infestation—which will further reduce the volume of the Hollander's sales. Of course he is not the only party to suffer—our people will be deprived of these beautiful flowers and the "Spring Bluets" of our front lawns will not appear. HORTICULTURE fully believes that the five scientists who are responsible for this privation to the people have successfully used or misused the rope given them, to hang themselves officially.

Easter plants and flowers

High prices for Easter material are certain. The late date at which it falls this year has helped the situation greatly, yet prices will rule far above the average. This is, of course, as it should be considering the higher cost of coal, labor and other production expenses. Lilies are in short supply and will show greater advance than other flowers. Cut flowers from Bermuda are coming but these will have small

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

THE 1919 CONVENTION.

The 1919 Convention will open in Arcadia Hall, Detroit, Mich., on August 19, next, continuing through the two days following. Indications point to a record-breaking gathering. From inquiries already received the Trade Exhibition to be held in connection with the convention will surpass all previous exhibits of this nature. Floor plans will be sent out next month, but prospective exhibitors should not wait for the plans before making reservations. There will be no preferred locations in Arcadia Hall, as the exhibition will be staged and the business sessions held on the same floor. The space rental has not been increased, and is the same as charged at previous exhibitions — 40c. per square foot. Among the early applicants for large blocks of space are: A. L. Randall Co., Chicago; Jos. G. Neidinger Co., Philadelphia; Ove Gnatt Co., La Porte, Ind.; Alex. Henderson & Co., Chicago; John A. Evans Co., Richmond, Ind.; Poehlmann Bros. Co., Chicago; S. S. Pen-nock Co., Philadelphia, and Schloss Bros.' Ribbons, Inc., New York.

To facilitate arrangements, orders for space should be sent in now. This will be a phenomenal convention, with many new features to attract trade visitors from all sections of the country, and it will pay exhibitors to take liberal space.

Life Memberships.

A proposed amendment to the Constitution and By-laws is to be presented to the Detroit Convention next August, increasing the life membership fee to \$50. Members in good standing contemplating life membership would do well to take notice of this, and send in their checks for \$25, the amount of the fee as at present, thus avoiding the possibility of having to pay the higher rate later on.

The March number of "The Journal of the Society of American Florists and Ornamental Horticulturists" was despatched under second class mailing privileges accorded by the Post Office Department. Any member who did not receive his copy should communicate at once with the Secretary. This number contained a full account of the mid-winter meeting of the Executive

Board, with reports in full, up-to-date news of the National Publicity Campaign, list of new members, and other matter of interest to members.

NATIONAL PUBLICITY CAMPAIGN.

In the June issue of the Metropolitan Magazine, with a subscription circulation of nearly half a million, and a readers' circulation of perhaps two million more, will appear an insert page, 11 x 14 inches, in colors, featuring our glass sign, "Say It With Flowers," and its use in a florist's window. Two small panels at the foot of the page carry the following legends:

"If you would have friends—be one."
"REMEMBER:

"The anniversaries, the birthdays, the events that call for congratulations of your friends with a token of flowers. What hurts quite as much as the knowledge that 'some one' who should remember, 'forgot all about it' this year? Life is made sweeter by those friends who never forget. You will have such friends if you are one."

"REMEMBER:

"For flowers that will exactly express as living, breathing messages, the words your heart would dictate, go to the florist displaying the sign, 'Say It With Flowers.' His affiliation as a member of the Society of American Florists gives him advantages that better fits him to serve you.

"Your local florist, within a few hours, can deliver fresh flowers in any city or town in the United States and Canada through the Florists' Telegraph Delivery Service."

This advertisement is intended as a direct recognition of the support to the campaign given by the many florists who, through watchful interest, have realized the immense amount of good resulting from the efforts of your Publicity Committees so far put forth, and have backed these efforts with liberal subscriptions.

It will pay any florist who has not already provided himself with one or other of our signs to supply himself without delay. The glass sign may be had from the Secretary for the small amount of two dollars, four decalcomanie signs for a dollar. A careful reading of the lower legend quoted above should evolve the reason for this suggestion.

Become a "real American florist," Mr. Nonsubscriber. You surely have the interests of the trade at heart, or you would not be, in fact, could not be a florist. Join this movement for the good of the business which is providing your living. Send in your contribution to the Campaign Fund—monthly payments if you prefer—and join the grand organization which is upholding and protecting our industry.

Our Promotion Bureau is mailing to the 14,000 florists on our mailing lists a "broadside" detailing the work of our Campaign, describing the various aids for linking up with the National publicity and designed to increase interest in our work. With it will be sent a specimen of the magazine page referred to in this article, subscription blanks and other matter. Any florist not receiving a copy of this broadside can have one on application to this office.

The following subscriptions have been received and are in addition to those previously announced annually for four years unless otherwise stated.

Kretschmar Bros., West Nyack, N. Y., \$2; Frederic Carey, Kennett Square, Pa., \$10; Mabel C. Lamborn, Phila., Pa., \$5; B. Hammond Tracy, Inc., Wenham, Mass., \$25; Feimer D. Smith, Adrian, Mich., \$25.
For One Year—W. B. Girvin, Leola, Pa., \$10; Charles Bond, Naperville, Ill., \$30; Wellworth Farm, Greenhouses, Downers Grove, Ill., \$50.
Total, \$157.00. Previously reported, \$34,445.50. Grand total, \$34,602.50.

JOHN YOUNG, Secy.

1170 Broadway, New York.

April 5th, 1919.

BOWLING TOURNAMENT AT DETROIT.

Anticipating a renewal of interest in bowling as a feature of the entertainment convention week this year, the local committee on bowling is making tentative arrangements for the event and requests the organized teams throughout the country to make their entries for the participation in the games as soon as possible. The program thus far arranged is as follows:

Grand contest open to all organized teams competing for the Grand Trophy. Two other prizes will also be given in this contest and a prize to the player on either team scoring the highest average. The individual games will be open to all except those players in the three games of the Grand Contest and at least ten and

perhaps more prizes will be awarded, graduating from the highest down to the number to be later designated.

The Championship Contest of three games will be open to the ten or more players scoring the highest points in the individual games and the highest man from each team entering the Grand Contest. The Ex-Presidents' Contest will be open to all ex-presidents of the S. A. F. and suitable prizes will be provided.

Ladies' Bowling.—Three games will be rolled by the ladies and at least ten prizes awarded.

The entire top floor of the Recreation Building has been engaged for the exclusive use of the visiting and local florists, and here all the games will be rolled, including the ladies' contest. There are twenty-eight alleys on the floor and they are considered the finest in the west, and being on the top floor of a nine-story building, the maximum of comfort for the bowlers and spectators will be enjoyed.

According to the present plans, Wednesday evening, August 20, will be assigned to the contest. Captains of organized teams please make entries and report to

JOSEPH STREET, Chairman,
1366 McClellan Avenue,
Detroit, Mich.

"SHIPS' BALLAST NOT AN IMPORTANT SOURCE OF INTRODUCING PLANT ENEMIES"?

Editor HORTICULTURE:

In its propaganda to offset the unexpected opposition that has developed against its import prohibition ruling, the Federal Horticultural Board through the Bureau of Information of the Department of Agriculture is now engaged in frequently issuing a "news item" released to the press of the country to create favorable public sentiment in behalf of its — act.

One of these items, just released, refers to "Ships' Ballast Not an Important Source of Introducing Plant Enemies," in which it states that "it is perfectly apparent that there is very little danger from such material, and it cannot be considered in the same sense at all as the highly cultivated soil coming with plants growing in greenhouses or in gardens or fields, and should any insect life get into such ballast material it would be accidental and exceptional."

Anyone at all familiar with the nature of the ballast loaded from along the banks of a tropical port, will realize how much danger there is in such ballast carrying insect pests, for instead of being primeval soil, as claimed, it is usually decidedly fertile

and abounds in plant life. Many species of insects are to be found on the sides of a ship's hold after being loaded with such ballast.

It is charged in the "news item" referred to, that if insect life gets into ballast it is "accidental and exceptional." Is it not just this that the Federal Board is trying to regulate—to avoid the "accidental and exceptional" cases of insect infestation of imported plants (there never have been any deliberate cases) that may pass unobserved through the employment of ignorant and irresponsible, so-called inspectors of plants?

Resorting to intelligence and not by casting reflection on American genius would solve the problem of proper protection against injurious insects and diseases, just as do the protectorial systems of other departments of the government for the purposes for which they are intended

It might not be amiss to cite the danger of foreign insects in the importations of bananas, oranges, pineapples, and cocoanuts among the more common of the tropical fruits. These are often carried into the homes and might readily spread to the garden. To safeguard against this danger would mean the inspection of practically every fruit that is imported. And yet there is absolutely no caution taken in this direction.

To safeguard this country efficiently against foreign insects would mean the shutting off of all foreign commerce. Nothing else will do it, so why discriminate against a particular branch of an industry which if destroyed, as it will be by the unwarranted act at issue, will not alone mean irreparable loss to many engaged in it, but will deprive what constitutes the very best of our citizenship of the pleasure that is derived from gardening.

M. C. EBEL.

THE BLUE LINUMS.

These pretty perennial flaxes are fine subjects for the rock garden or margins of borders, for they are singularly graceful, bloom very profusely over a long period, and slugs and other pests appear to leave them alone. Also they seem indifferent as to soil, provided it is well drained and the situation open. The almost prostrate *L. alpinum* is usually the first to blossom. This is quickly followed by *L. perenne*, whose bright azure flowers are so daintily poised at the tips of the slender and elegant waving stems. A more robust (2 feet) species with

blossoms of a deeper blue is *L. narbonne*; and *L. austriacum*, rather less tall and bushy, is also a good one.

—The Garden.

"SAY IT WITH FLOWERS."

Say it with flowers, those emblems of love
Sent to us mortals by the Immortal above,
To show us a part of the beauty that waits
When St. Peter says Welcome and opens the gates
To that wonderful garden where blossoms unknown
And those we love here together are grown.

Say it with flowers; your message of joy,
To welcome the birth of the girl or the boy;
The symbols of love that bring to the child
His very first glimpse of earth's blessings compiled.
And the mother who bore him will feel with new power
All the gladness of earth o'er the birth of a flower.

Say it with flowers—your message to her
Whose love more than riches and fame you prefer;
To her you hold dear in the realm of your heart
No lips such a message of love can impart
As flowers which reflect like the pure, flawless gem
The love which a whole world has for them.

Say it with flowers—your message of cheer
To those whose life is unhappy and drear;
To hearts sorely burdened what message instills
New strength for the journey, down dales and up hills
As the sight of the flowers that carpet the land,
True pictures of faith by the great Master Hand.

Say it with flowers—your message to quicken
The languid pulse with illness stricken,
For the Great Physician has stored in flowers
The healing balm of countless hours
Of golden sunshine, to shine again
By the bedside of loved ones suffering pain.

Say it with flowers—your message of sorrow,
For those who will nevermore know a tomorrow;
Whose today has dawned in that realm on high,
Prepared for their coming, beyond the sky.
But your tribute of flowers, your last token of love
Will carry your message to that home up above.

(Copyright, 1919, by Hugh Balfour Barclay.)

MAY FLOWERING TULIPS



The long-time favorite single early tulips still retain their popularity in the embellishment of the spring garden but the Darwin and Mayflowering

section is one of the crowning glories of the tulip race. There is a stateliness and refinement in their unrivalled velvety art-tinted flowers,

borne on tall erect stems, which is simply irresistible and which no other denizen of the spring show beds can dim.

THE AMERICAN ROSE SOCIETY.

The twentieth annual meeting of the American Rose Society was held at Hotel Breslin, New York City, April 2, at 3 o'clock, President Hammond presiding. The president in his annual report reviewed briefly the development of the Society during the twenty years of its existence, and emphasized the broadened interest in rose growing which has resulted during the period. The Secretary reported a membership, April 1st, of 1203, and the Treasurer reported a balance of \$2137.58. The election of officers resulted as follows: President, Captain George C. Thomas, Chestnut Hill, Philadelphia, Pa.; Vice-President, F. L. Atkins, Rutherford, N. J.; Treasurer, Harry O. May, Summit, N. J.; Secretary, E. A. White, Ithaca, N. Y. Members of the Executive Committee for three years, Robert Pyle, West Grove, Pa.; George H. Peterson, Fair Lawn, N. J.; James Boyd, Haverford, Pa. The President named Robert Simpson, Frank Traendly and Eugene Dailledouze a special committee to audit the books of the Treasurer. Following the election of officers, Treasurer May expressed the appreci-

ation which he personally felt the Society should extend the retiring President, Benjamin Hammond, for the many years of faithful service he has devoted to the organization. It was moved by J. Horace McFarland that the Society express to Mr. Hammond by a rising vote its deep gratitude for the efficient services he has rendered. The result of the vote was unanimous. Messrs. Pyle and Pennock also expressed their appreciation of the way in which Mr. Hammond stood by the Society in its years of adversity. Mr. Pyle recalled the time when the finances of the society were at a low ebb, and when Mr. Hammond came forward offering to give a substantial sum to help put the society on its feet. Mr. Pennock moved that Mr. and Mrs. Hammond be presented with a vase of roses as a slight token of appreciation of the good will of the Society.

Previous to the annual meeting, a session of the Executive Committee was held in the office of the Secretary of the Society of American Florists and Ornamental Horticulturists, 1170 Broadway. Consideration was made of the appointment of a committee to award the

Gertrude H. Hubbard gold medal for the best rose of American origin introduced during the last five years. It was the opinion of the Executive Committee that only the varieties registered with the American Rose Society should be considered eligible for this medal. The Secretary was instructed to prepare a list of the varieties eligible and mail these to each member of the Committee. It was also voted that the award of the Hubbard medal be postponed until a fall meeting of the Executive Committee so that special consideration might be given eligible varieties during the summer. J. Horace McFarland, as chairman of the committee appointed at the last meeting to consider changes in the constitution and by-laws of the Society, read these changes in detail. It was voted that the Secretary be instructed to prepare a draft of the changes under consideration and to mail these to each member of the Committee. The question of reducing the life membership fee was discussed, and it was the opinion of the Committee that the present fee of \$50 is not too high and that no change should be made. E. A. WHITE, Secretary.

GREENHOUSE FERNS.

Perhaps it is not saying too much to say that there is no other class of plants cultivated in greenhouses that afford more pleasure the year round than ferns. When healthy, they are interesting and beautiful at all seasons, and the gracefulness of their fronds, combined with the various shades of green exhibited by different varieties, attract the attention of many who take little notice of other forms of vegetation, and so secure for them an amount of admiration not exceeded by any other family. Their adaptability to assist in meeting the demand which at present exists for decorative plants should procure for them particular attention.

When growing ferns for decorative purposes, they require to be treated somewhat differently to what would be the case were they not intended to undergo the vicissitudes to which they will be exposed, in the dry atmosphere of the rooms of a dwelling house. The object which the grower should have in view is to produce plants of as hardy and robust a description as possible. To attain this, it is necessary to grow them in as low a temperature and with as little humidity in the atmosphere as is consistent with an average development of the fronds.

Plants intended for room decoration should be grown in pots of such dimensions as will fit into vases, etc., provided for this purpose. In general, this causes the size of the pots to be limited, in comparison to that of the plants. A great many ferns remain healthy for a considerable time under restrictive root room, providing other conditions are favorable, and their style of growth gives them an advantage in adding a finish to a vase or flower basket not surpassed by any other class of plant. The restriction of root room demands that the compost used should be of as good a kind as possible and of a character suited to maintain the plants in health. I have found good fibry peat with a liberal proportion of silver sand and wood charcoal, broken about the size of small peas, to be a good mixture in which to grow them. No doubt some sorts make stronger fronds when sandy loam is used as compost, and when the plants are intended for exhibition, it is necessary for the fronds to be as large as possible, but when they are intended for the home a less luxuriant development is desirable.

Although ferns require a liberal supply of water to their roots, particularly during the season when they are making their growth, it is true that a sloppy state of the compost is opposed to their well-doing. If the soil be-

comes sour, either through inefficient drainage or over watering, they will cease to thrive in proportion as the evil exists. Over-watering is the most common cause of the soil in flower pots becoming sour, and in the case of ferns it is frequent occurrence. This arises from a rather prevalent idea that as a class, they are not easily overdone in this matter, but, although they delight in a liberal supply, it should never be given them until the state of the soil warrants it. It is indispensable to the successful culture of ferns that the pots be properly drained in the first instance, and that care be taken that nothing interferes to prevent the drainage from acting properly afterwards.

Worms are often the cause of obstructing the drainage through filling the interstices with their casts, causing the soil to become sour. When peat and sand are the material used as a compost, worms are not as troublesome as when loam is used. As soon as they are observed, means should be taken for their speedy removal. In the case of moderate size and small plants, this may be effected by turning the balls quickly out of the pots on the palm of the left hand, and with the right removing the intruders, the ends of which are usually found protruding from some part thereof. When doing so, it will in some cases be necessary to exercise a little patience, as unless they are gently dealt with some of them will break in the process of extraction, and the portion left in the soil will have to remain unless the ball is broken and its removal effected in that way. Watering the plants occasionally with water heated to 100 degrees is a means whereby worms may be induced to come to the surface, where they can be caught.

In structures wholly devoted to the growth of ferns, the desired amount of atmospheric moisture should be kept up by the evaporation from the troughs of the hot water pipes and sprinkling the paths and staging. As a rule syringing the plants should not be practiced. If, for the purpose of keeping insects in subjection, it is necessary to syringe particular plants, they should be placed together in some part of the house, so that when undergoing the operation, others may not suffer thereby.

Shading is an important consideration, and unless it is properly attended to one of their principal charms will be lost, as shading from bright sunshine is the means whereby the beautiful tints of green are brought out and preserved. All the *Adiantums* (maidenhair ferns) with which we are acquainted should not be exposed to

the direct rays of the sun from the first of February to the first of November, and the same applies to the great majority of ferns grown under glass.

In a warm greenhouse (temperature 55 to 60) the following are good kinds to grow—*Adiantum cuneatum* (maidenhair), *decorum*, *pecotti*, and *gracillimum*; *asplenium*, *bulbiferum* and *colensoi*; *aspidium* *tsussimense*; *pteris serrulata*, *cristata* and *victoriae*. In the cool greenhouse (temperature 45 to 55 degrees), *Adiantum aethiopicum*, *cratomium*, *falcatum*; *nephrolepis*, *whitmani*; *pteris*, *scaberula*; *microlepia*, *platyphilla*. In a cold greenhouse (no artificial heat), *adiantum affine*, *cratomium fortunei*, *polypodium vulgare*, *canbricum*; *asplenium fontanum* and *athyrium goringianum pictum*.—B. C. Tillett, in the Canadian Florist.

COMMERCIAL FLOWER GROWERS OF CHICAGO

The organization of the growers of flowers for commercial purposes has been under way for some time, following naturally the organizations of the retailers and the wholesalers. After several preliminary meetings the details have been perfected and the following officers elected: Joseph Kohout, Libertyville, president; Peter Pearson, vice-president; Otto H. Amling, Maywood, secretary; N. J. Wietor, Chicago, treasurer; Walter A. Amling, Maywood; Rudolph Ellsworth, Downer's Grove; George J. Ball, Glen Ellyn, executive board, and R. J. Windler, membership. The society will be known as the Commercial Flower Growers of Chicago and takes its place with an enthusiastic membership, prepared to work for the best interests of the growers who furnish the cut flowers and plants for the greatest market of the world.

The American Institute of the City of New York and The American Dahlia Society will hold an exhibition of dahlias in the Engineering Society Building, 25-33 West 39th Street, New York City, on September 23rd to 25th, 1919. Also, The American Institute and the Chrysanthemum Society of America will hold an exhibition of Chrysanthemums at the same place on November 5th to 7th, 1919.

Further information may be had upon application to Wm. A. Eagleson, Secretary, Board of Managers, 322-324 West 23rd Street, New York.

"The power a man puts into saving measures the power of the man in everything he undertakes."—(Frank A. Vanderlip.) Buy W. S. S.

ATTENTION.....FLORISTS

“FOR EASTER”

WHOLESALE AND RETAIL

300,000 Cut Easter Lilies

\$15.00 to \$20.00 per hundred

Realizing the problem that is facing the Wholesale and Retail Florists throughout the Country, relative to securing Easter Lilies for their Easter business, and considering that what few Lilies they may be able to obtain will be at such an exorbitant price, namely \$35.00 to \$40.00 per hundred, due to the fact that there is only one-tenth of the usual production on account of the Growers being unable to get sufficient LILY BULBS, you can readily see the seriousness of the LILY SITUATION.

WE, THE ONLY HOUSE IN NEW ENGLAND being able to obtain EASTER LILIES at a reasonable price take pleasure in announcing that we will have a supply of **THREE HUNDRED THOUSAND (300,000) CUT LILIES**, which we are pleased to offer you at an approximate price of **\$15.00 to \$20.00 PER HUNDRED**.

We will also have in stock, as usual, a supply of all seasonable CUT FLOWERS at prevailing market prices.

We suggest that you place your order as soon as possible and we assure you that the same will receive our careful and prompt attention, with **QUALITY, SERVICE and RIGHT PRICES**.

Unknown customers will please send cash with order, or furnish satisfactory references.

“NO POTTED LILIES”

B. A. SNYDER CO., **WHOLESALE FLORISTS**

Florists' Supplies and Cut Flowers

23-25 Otis Street -- -- -- BOSTON, MASS.

“THE HOUSE OF QUALITY”

21---HOUSES---21

FILLED with RAMBLER ROSES, HYDRANGEAS, DAISIES, HEATHS, BOUGAINVILLEAS, BORONIAS, FERNS, CROTONS, ACACIAS, etc., just right for your EASTER trade.

SEND FOR PRICE LIST

THOMAS ROLAND - NAHANT, MASS.

A PROGRESSIVE STEP BY A PROGRESSIVE CONCERN.

The enterprising wholesalers who have been for a quarter century leaders in every forward movement in the trade—The Samuel L. Pennock Company—have just inaugurated a new idea. As is well known this company was the first to institute system among its employees giving every one according to his energy and ability. This company was also the leader in the movement for shorter hours in the wholesale trade of Philadelphia and through strenuous efforts and steadfastness to principle accomplished a great reform—a reform to which all their competitors now cling—although not all have as yet got themselves out of the old slough of long hours, and up to the sunlit pinnacle of greater efficiency in shorter time. The latest adventure of the Pennock organization is in the nature of a safeguard for those dependent on the men and women employed by the company. This takes the form of a life insurance policy which is extended free of cost to all accredited employees. This applies not only to the headquarters store in Philadelphia but to their other stores in New York City, Baltimore, Md., and Washington, D. C. The costs of this remarkable and generous protection to the employees in all four stores, in the four cities mentioned, will be borne entirely by the

Pennock Company, and will not cost the employee one cent in any way whatever, either directly or indirectly. It has often been said that the American people worship the dollar and the dollar only, but here is a conspicuous instance which shows that there are exceptions. We commend the example to other concerns and are assured that the idea will strike a responsive chord all over the country.

A GOOD SYSTEM.

The rapid increase in the exchange of retail orders between florists has necessitated the development of systems for handling this department of the business. It is necessary that a record be kept of each order, in and out, and of the payment made therefor. In order to standardize the system, the office of the secretary of the F. T. D., 153 Bates street, Detroit, has prepared a loose-leaf record book, printed and ruled for the information necessary to preserve.

One side of the leaf is for outgoing orders. The first column shows the date; then comes the name of the party giving the order, address and whether cash or charge. Then comes a column for the name of the florist to whom the order is sent, with a brief description of the articles ordered and columns for entering the date paid

and the gross and net amount, with a final column for "remarks."

The other side of the leaf is for a record of incoming orders. The first column shows date received, from whom, whether by wire, phone or mail, nature of order, time to be sent, card, name and address to which flowers are to be sent and columns for gross and net amount, date of billing and date of payment.

The use of this record book will put the telegraph delivery department on any flower store on a business basis. It not only will show the amount of business done, but it will show at a glance whether or not the bills have been paid when due. It will show the florist who uses it the bills he has failed to pay as well as those who have failed to pay him. It also will have the decided advantage that all those engaged in developing this feature of the business will keep records in the same form.

NEW CORPORATIONS.

Anderson, S. C.—Anderson Floral Co. Incorporators H. G. Love, R. E. Grabel and J. K. Postma.

Spring Lake, N. J.—Spring Lake Dahlia Farm, capital stock \$50,000. Incorporators F. R. Austin, C. H. Lawrence and Fred D. Schouk.

INSTRUCTION IN GARDENING

Practical instruction is offered in vegetable, flower and fruit gardening, greenhouse and nursery practice, together with lectures, laboratory, field and shop work in garden botany, zoology, pathology, landscape design, soils, plant chemistry and related subjects. The curriculum is planned for the education of any persons who would become trained gardeners or fitted to be superintendents of estates or parks. Students may be admitted at any time. Circulars and other information will be mailed on application.

The New York Botanical Garden
Bronx Park NEW YORK CITY

Chrysanthemum Cuttings

Major Bonnafon, Chas. Razer, Oconto, Pacific Supreme and Chrysolora, ready April 1st, \$2.50 per hundred.

Also, Extra Strong Cuttings of Carnation Matchless, \$20.00 per thousand.

W. D. HOWARD
MILFORD, - - MASS.

ORCHIDS

CHANCE of a lifetime to buy Cattleya of every variety at a big sacrifice.

These plants must be sold at once.

MILTONIA CONSERVATORY

180 Wheeler Ave., Providence, R. I.

List prices on request. Tel. Broad 3483

CATALOGUE SIZES.

April 5, 1919.

HORTICULTURE,

Boston, Mass.

Gentlemen:—Referring to communication wherein the Superintendent of Mails of the Baltimore office had advised J. Bolgiano & Sons that after March 31st no catalog under eight ounces measuring more than 4 x 9 inches would be received by the Baltimore office.

The Postal Laws Committee investigated and had the following communication from the Third Assistant Postmaster General Dockery:

"In reply to your communication of the 31st ult. there are enclosed for your information copies of circulars of this office dated January 12 and June 3, 1918, regarding the use of envelopes of unusual size or irregular shape, and you are informed that it is desired that patrons of the postal service will co-operate with the Department in preparing their mail so that it will be put up in the best possible manner to facilitate handling in the mails. Whenever it is practicable to prepare matter so that it can be enclosed in an envelope not exceeding 4 x 9 inches, this should be done. The sender will thereby cause the matter to be handled more expeditiously, thus benefiting both himself and the postal service."

Respectfully,

(Signed) Third Assist.

POSTMASTER GENERAL DOCKERY.

You will see by this that the Postoffice is only asking for co-operation in matters of folders and light catalogs that would be in no way injured by folding. Their idea of getting a uniform sized envelope was to give better service in the handling of the mail.

Very truly yours,

W. F. THEBKILDSON,

Chairman of the Postal Laws Com.
American Seed Trade Association.

OBITUARY.

Henry Hansen

Henry Hansen, a well known pioneer of Chicago, who with his father came from Sweden when a child and made his home in the rapidly growing city of the middle west died March 31st. His father founded the business at 1742 Cemetery Drive, near one of the large cemeteries of the north side, previous to the great fire, and was succeeded by his son about 35 years ago. The business was successful and the high place which Mr. Hansen held in the esteem of his friends in the trade, was evidenced by the large attendance at the funeral and the profusion of flowers. Mr. Hansen was 60 years of age and leaves a wife and three children to mourn his loss.

Best Young Trees

Little Tree Farms, Framingham, Mass. Millions of Evergreen and Deciduous trees, all grades and sizes.

Write for Price List

Firs, Junipers, Arbor-vitae, Pines, Spruces, Maples, Ash, Oaks, Linds, Elms, etc.



American Forestry Company

15 Beacon St., Boston, Mass.



NURSERY STOCK

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List

W. & T. SMITH COMPANY, Geneva, N. Y.

We are subscribers to the Nurserymen's Fund for Market Development

HILL'S EVERGREENS

BEST FOR OVER HALF A CENTURY
Small, medium and large sizes supplied
Price list now ready

THE D. HILL NURSERY CO.

Evergreen Specialists. Largest Growers

in America

BOX 415, DUNDEE, ILL.

IBOLIM

The New Hybrid

HARDY PRIVET

(L. Ixora x Oval-folium)

TO BE SENT OUT IN THE FALL OF 1919. Introducing of Box-Barberry.

Elm City Nursery Co., WOODMONT NURSERIES, Inc., New Haven, Ct.

VISITORS' REGISTER.

Boston—Harry A. Barnard, rep. Stuart Low & Co, Bush Hill Park, Middx., Eng.; Horace Head, Rochester, N. Y.

Cincinnati—Fred Rupp, Lawrenceberg, Ind.; W. G. Matthews, Dayton, Ohio, and C. P. Brunner, Springfield, Ohio.

Philadelphia—George W. Hess, Botanic Garden, Washington, D. C.; John T. Muir, Chicago, Ill.; J. E. Barnard, Kennett Sq., Pa.; George C. Shaffer, Washington, D. C.; Wm. Paget, Jr., Botanic Gardens, Washington, D. C.; T. Malbranc, Johnstown Pa.; Elmer J. Weaver, Ronks, Pa.; Frank H. Clement, Palm Beach, Fla.; E. H. Flood, Atco, N. J.; Chas. P. Guelf, Jerome B. Rice Co., Cambridge, N. Y.; A. Lee Don, Weeber & Don, New York City; Adolph Albert Gude, Washington, D. C.; E. Gurney Hill, Richmond, Ind.

Chicago — A. Johnson, Johnson Greenhouses, Memphis, Tenn.; H. W. Kropp of the Cottage Rose Garden, Columbus, O.; Walter Mott, rep. Hammond's Paint & Slug Shot Works, Beacon, N. Y.; Miss Tearney, Davenport, Ia.; J. F. Keller, Lexington, Ky.; Chas. Siebrecht, Winona, Minn.; Frank X. Gorley and E. Durnberg of Grimm & Gorley, St. Louis, Mo.

BOSTON.

The trustees of the Massachusetts Horticulture Society have appropriated \$5,000 for an orchid exhibition to be held some time in March, 1920. J. K. M. L. Farquhar and Thomas Roland have been appointed on the advisory committee.

James McCormack of the 38th inf., regular army, has returned to Welch Bros' Co., having recently received his discharge from the service. He was in nearly every battle from the Marne to Mt. Faucon, where he was gassed.

CINCINNATI.

The April meeting of the Cincinnati Florists' Society will be held on Monday, the 14th, at Sheppard's place.

Geo. Fern furnished and hung the decorations for the Triumphal Arch and Court of Honor erected on Government Square in honor of our returning soldiers.

Eck Bros. are opening a flower store along side of the one which they closed when they went into the service. The new store is larger and has better facilities and appointments.

Headquarters for

PACHYSANDRA
TERMINALIS

50,000 out of 2 1/4
inch pots.

Write for Prices

OLD TOWN NURSERIES

SOUTH NATICK, MASS.

M. P. HAENDLER, Prop.

STAR BRAND ROSES

"American Pillar" and nearly every other good hardy climber.

Send for our list.

The CONARD & JONES CO. ★ WEST GROVE PENN., U.S.A.

Robert Fyle, Pres. Antoine Winter, Vice-Pres.
We are subscribers to the Nurserymen's Fund for Market Development

GLADIOLI

New Trade List Ready

JOHN LEWIS CHILDS, Inc.

Flowerfield, L. I., N.Y.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, F. W. Boigian, Washington, D. C.; First Vice-President, Wm. G. Scarlett, Baltimore, Md.; Second Vice-President, David Burpee, Philadelphia, Pa.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

OBSERVATIONS ON EUROPEAN SEED CONDITIONS.

On December 30, 1918, Dr. A. J. Pieters, of the Forage Crop Investigations Section of the Bureau of Plant Industry, and Mr. W. A. Wheeler, in charge of Seed Marketing Investigations and the Seed Reporting Service of the Bureau of Markets, sailed for Europe for the purpose of obtaining as reliable information as possible concerning seed stocks and requirements in European countries. Together they visited England, Ireland, Scotland, France, and Italy, during January and February, after which Mr. Wheeler returned to the United States and Dr. Pieters remained in Europe to visit Belgium and Holland.

There are given here some of the observations that were made in the countries visited by both representatives.

Field Seeds.

RED CLOVER. One of the principal objects of making the European trip at this time was to secure information as to supplies and requirements of European countries for red clover seed. There had been considerable demand from England for American red clover and it was apparent that the supplies in the United States were much below normal and that if the demand was normal this country would run short of seed. The attitude of the Department of Agriculture on this matter was that clover seed should be furnished to Great Britain, or other Allied countries, to help meet their planting requirements, even in the face of a possible shortage in the United States, but that it was not desirable to attempt to meet all the commercial demands without knowing that such demands were for their own planting requirements.

Previous to leaving for Europe, the War Trade Board, upon request of the Department of Agriculture, had allotted 3,000,000 pounds of red clover seed for export to Great Britain. Upon arrival in London a conference was held with government representatives. They had understood the allotment to be 2,000,000 pounds, instead of 3,000,000 pounds, and felt that this would hardly take care of their requirements. Both government officials and seeds-

men, however, thought that 3,000,000 pounds, with seed obtained from other sources, would be ample for their own planting.

Clover seed was shipped to Great Britain from both France and Italy. The United Kingdom uses seed from both of these sources, but prefers seed coming from Britany, France, as this is considerably north of the other sources of supply. From observation of conditions in France, in the absence of accurate statistics, it appeared that there was no real surplus of red clover seed in France and that whatever seed might be exported would need to be replaced by seed from other sources, and it was known that Italy was exporting seed to both France and England. The latest information received is that France has prohibited further exportation of red clover seed to England. Italy apparently had a surplus of clover seed for export. It was impossible to obtain any accurate figures from either France or Italy as to their supplies or requirements of red clover seed.

In the United Kingdom, American red clover seed takes preference over all other imported seed. With the dealers it ranks second only to their best home-grown seed. The dealers are very much concerned about the outlook for red clover seed for the near future. They recognize that there are no indications that the production, either in England or in the United States, will regain the normal of pre-war years in the very near future.

WHITE CLOVER. Considerable white clover seed is imported by the United Kingdom from the United States every year. No restrictions have been placed upon exports from the United States, because white clover does not occupy an important place in our agriculture as does red clover. In England, how-

MICHELL'S NEW CROP Asparagus Plumosus Nanus

GREENHOUSE GROWN SEED

1000 Seeds....	\$3.00	10,000 Seeds....	\$25.00
5000 Seeds....	13.75	25,000 Seeds....	56.25

Asparagus Sprengeri

1,000 Seeds....	\$0.75	10,000 Seeds....	\$5.50
5,000 Seeds....	3.00	25,000 Seeds....	12.50

Special prices on larger quantities.

Also all other Seasonable Seeds, Bulbs and Supplies. SEND FOR OUR NEW WHOLESALE PRICE LIST IF YOU HAVEN'T A COPY.

HENRY F. MICHELL CO.

518 MARKET ST., PHILADELPHIA



ever, it is a very important component of their meadows and pastures.

TIMOTHY. The exports of timothy seed from the United States to Europe in the past have been largely for central European countries. It is absolutely impossible now, with the unsettled conditions in those countries, to estimate their requirements. They undoubtedly will need large quantities of timothy seed, which will probably exceed prewar requirements. Just how soon it will be possible to learn more accurately regarding the timothy seed situation in Continental Europe, it is impossible to tell.

REDTOP. The redtop seed situation is very similar to that of timothy, except that it does not occupy so important a place as timothy.

RYE GRASSES. Among the most important field seed imports into the United States from the United Kingdom are the rye grasses. About two-thirds of the rye-grass seed handled by dealers is perennial and one-third Italian. The seed is exported largely by wholesale grass seed dealers of Belfast, Glasgow, and Edinburgh. About five-sixths of the total production is exported, and the United States is one of the leading importers of this seed.

ORCHARD GRASS, OR COCKSFOOT. In the past the larger part of the imports of orchard grass into the United Kingdom have been from the United States and New Zealand. In recent years, Denmark has been offering considerable seed which, because of its better average appearance and purity, has

SEEDS AND BULBS

Waddington's

128 Chambers St., N. Y. City

PINO-LYPTOL

WEED KILLER

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS, TENNIS COURTS, DRIVEWAYS, ETC.

This fluid destroys weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

PINO-LYPTOL CHEMICAL CO., 507-509 W. 19th St., New York
CORRESPONDENCE SOLICITED.

taken precedence over some of the American seed. From a casual examination of a number of samples, it appears that the advantages of the Danish seed are entirely in appearance and purity. In both weight and germination it seems that the American seed averages fully as good as, or better than, the Danish seed. If greater care is taken by American exporters in the preparation of orchard-grass seed for export to remove the dock, sorrel, and other impurities that are

often present, and by American growers to give more attention to keeping the weed seed out of the crop, it is thought that the American seed will regain its former position with British dealers and that there will even be an increase over the former normal demand.

MEADOW FESCUE. The meadow fescue produced in the United States before the war was largely exported to European countries. During the war this export was largely cut off and American production was curtailed because of there being no large home demand. The British dealers hope that some meadow fescue will be offered by American dealers in the near future.

KENTUCKY BLUEGRASS. Dealers interviewed were very much interested in being able to obtain the higher grades of Kentucky bluegrass, represented by stocks testing from 24 to 28 pounds per bushel. Most of the stocks that have been offered them in the past have been from 17 to 21 pounds, but they are now becoming educated to the better grades and do not like to take the light-weight seed, or seed containing a large percentage of chaff, the reasons for which are quite apparent.

Vegetable and Root-Crop Seeds

SUGAR BEET. There is no root crop in which the European countries are so greatly interested at the present time as the sugar beet. The great source of supply of sugar-beet seed has been Russia. This country and Germany, before the war, exported large quantities of sugar-beet seed to other European countries and to the United States. At the present time, England, France, and Italy are all looking for sugar-beet seed. They are all anxious not only to regain their prewar production of sugar beets but to increase their production. The United States is also very much interested in sources of supply for sugar-beet seed and is manifesting great interest in the Russian outlook. It appears that the three European countries mentioned do not have a sufficient supply of sugar-beet seed for this season's requirements. The United States is able to produce about one-third of its requirements and has enough seed on hand for this

season's acreage and for a portion of the acreage for 1920. Much of the seed on hand in European countries and in the United States at the present time is of low germination because some of it has been kept for several years.

TURNIP AND RUTABAGA. It is thought that England will be able to supply normal quantities of turnip and rutabaga seed. They have done everything possible to encourage this industry in order to maintain or increase normal production of seed. It appears that their stocks are adequate at the present time, and all information that could be gained as to acreage to be put out this season indicated that normal export demands could easily be taken care of.

VEGETABLE SEED GROWING IN FRANCE. From observation of the larger seed growing areas visited, it appears that the growers expect to place a normal acreage of practically all vegetable-seed crops this season, and it is also apparent that some of the growers are trying to increase their acreage in the hope of there being a greatly increased demand. They recognize the efforts that the United States has made to increase vegetable-seed production and are aware of the large surpluses of certain seeds offered from the United States. They seem to feel, however, that there will be sufficient demand for whatever they may produce.

LEMON OIL CO'S

STANDARD

INSECTICIDE

Save your plants and trees. Just the thing for greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrips, Red Spider, Black and Green Fly, Mites, Ants, etc., without injury to plants and without odor. Used according to direction, our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

½ Pint, 30c.; Pint, 50c.; Quart, 90c.; ½ Gallon, \$1.50; Gallon, \$2.50; 5 Gallon Can, \$10.00; 10 Gallon Can, \$20.00. Directions on package.

LEMON OIL COMPANY

Dept. S. 428 W. Lexington St., Baltimore, Md.

Aphine

The Insecticide that kills plant Lice of many species

The Recognized Standard Insecticide.

A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$2.50.

FUNGINE

For mildew, rust and other blights affecting flowers, fruits and vegetables.

Quart, \$1.00; Gallon, \$2.50.

VERMINE

For eel worms, angle worms and other worms working in the soil.

Quart, \$1.00; Gallon, \$2.50.

SOLD BY DEALERS.

Aphine Manufacturing Co.
MADISON, N. J.

USE WIZARD BRAND

TRADE MARK

CONCENTRATED PULVERIZED MANURE

Pulverized or Shredded

Cattle Manure

Pulverized

Sheep Manure

The Florists' standard of uniform high quality for over ten years. Specify: **WIZARD BRAND** in your Supply House order, or write us direct for prices and freight rates.

THE PULVERIZED MANURE CO.
84 Union Stock Yard, Chicago

LOCAL AND GENERAL NEWS

CHICAGO.

The Hoskins Floral Co. of Elmhurst has sold out to the Forest Park Floral Co., which will operate both places.

Mrs. Allie Zech is still in the hospital where she is making progress, though not so rapidly as her friends desire.

August Koch, superintendent of Garfield Park and its noted conservatories, will again maintain a vegetable garden in the park for the purpose of teaching, by object lessons, how to plant and care for a successful home garden.

The paper lily, the cloth lily and the wax lily are all striving to satisfy the lovers of the good live lilies of other Easter days. How much success they will meet remains to be seen, but here's honestly hoping that it will not be much.

Peter Miller says you never know what is coming when you scratch your finger in a flower store. To him it meant a badly swollen hand and arm and two weeks in a hospital, but he is again able to attend to his duties and happy indeed to be back.

One of the happiest men in the wholesale market is John Enders, for his son Clarence, now in the Army of Occupation, is getting ready to leave and before many weeks are gone he will be home once more, after having made an enviable record as a soldier.

Henry Kruchten says that a letter just received from his brother Charles, now with the Army of Occupation in Germany, says that at last, after a year's waiting, he has received letters from home. He said that one of the soldier's greatest hardships was the failure of home letters to be delivered.

T. Kirchoff, 4711 Milwaukee Ave., has a modern range of houses and grows a large portion of the stock used in his retail store. Richard, a brother, lately home from Dayton, Ohio, where he was engaged in war work, is now in the business with him. A large line of bedding stock is a specialty here.

Fred Lautenschlager, who has just returned from a trip to St. Louis and vicinity in the interest of his firm, the Kroeschell Bros., found the florists preparing to add to their ranges of houses and to put them in good order for another big season. As a consequence, the Kroeschell boilers were never more in demand than now. Mr. Lautenschlager is of the opinion that there will be no extremes in

building but the moderate sized plants will be the ones to be enlarged.

The wheels are buzzing at the Foley Greenhouse Co.'s plant on 31st street, near Kedzie avenue, and P. J. Foley says there is unmistakable evidence of the return to life of the building industry. That it will be retarded more or less by the high cost of material is probable, but as the prices of cut flowers and plants have also been high during the past year and there seems no prospect of a decline, a moderate amount of building will be done.

The "something new" for Easter has appeared in the windows of the Geo. Wienhoeber store, where new things are often found. Placques from 24 to 30 inches in length and 12 inches wide are painted green and on each is a large bouquet of spring flowers, the stems of which are in a container placed in a large white Easter egg, lying flat upon the plaque. Under the edge of the bouquet is a white rabbit of life size, and securely fastened to the board. The egg and rabbit are both of paper mache and the whole arrangement is in good taste and destined to be a good seller at from ten to fifteen dollars each.

Miss Marie Groth, well known to the trade for her artistic skill in designing and decorating the many novelties in the Poehlmann supply department, won the distinction of getting the order for the Victory pennant banner from the club women who organized for the coming Victory loan campaign at the Blackstone last week.

Miss Groth made the pennant banner 24 x 60 in. of white satin, edged with gold cord and on either side of the top hung heavy gold tassels. In the center was a V-shaped laurel wreath of gold cloth, each leaf overlapping the next and slightly tinted with green, the "V" standing for Victory and also for fifth loan. The local papers gave a picture of the banner and complimentary notice. Miss Groth also originated the slogan, "Save to Buy, and Buy to Save."

ST. LOUIS

The Growers met Wednesday, April 4, at 11 Mile House and discussed Insurance and Publicity.

Arbor Day was celebrated Friday, April 6, by tree planting in memory of departed soldiers.

The St. Louis Wholesale Cut Flower Co. will erect a new building east of their present location. They desire more room.

ROCHESTER, N. Y.

John Dunbar, assistant superintendent of parks, is in Hahnemann Hospital where he has had a very serious operation.

Dewey Lester has taken a position with J. B. Keller & Sons. Cecil Lester has been promoted to head clerk at Hart & Vick's seed house.

Why

Jinn The Florist
Park St., Boston

Because Satisfaction Is Guaranteed

Usual Trade Discount

Easter Flowers

We are ready to ship for Easter just the **Cut Flowers** and **Evergreens** you need such as, **RUSSELL, HOOSIER BEAUTY, BRILLIANT, OPHELIA, WHITE KILLARNEY, AMERICAN BEAUTY, Galax, Smilax, Ferns, Laurel, Leucothoe Sprays, etc.**

OUR GUARANTEE

We guarantee that the flowers which you will receive will be fresh cut and so packed as to arrive in perfect safety and in good condition.

OUR PRICES

are positively guaranteed to be the lowest.

OUR GUARANTEE

is very broad and no reputable concern can afford to make any statements which are misleading.

We kindly ask you to pass us your orders not only for your **Cut Flowers**, but for your supplies. We want you to feel that our services are entirely at your command. If our goods or prices have at any time displeased you in any way we will not only listen to your advice but we shall make a suitable adjustment at once.

We are headquarters for

CUT FLOWERS

and

EVERGREENS

No matter how small your inquiry may be, whether it is for one wreath, one spray, one box magnolias, one bale of moss, one box of wire or one box of toothpicks, we shall be glad to give it our prompt attention.

We preserve our own

CYCAS

and manufacture our own

BASKETS and all

WAX GOODS

for Memorial Day

right in our own factory

If there is anything you need along our line do not fail to let us know. We shall be very glad to have you call on us, write us or ring us up at our expense.

Kindly address all correspondence to our Main Office, 15 Otis Street.

BOSTON FLORAL SUPPLY CO.

Wholesale Florists

DEALERS IN

CUT FLOWERS AND EVERGREENS

MANUFACTURERS, EXPORTERS AND IMPORTERS, PRESERVERS OF CYCAS AND NATURAL FOLIAGE

Office, Salesrooms, Shipping Dept.

15 OTIS ST. and 96 ARCH ST.

PHONE MAIN 2574-3525

BOSTON, MASS.

Factory and Laboratories

347-357 CAMBRIDGE STREET

PHILADELPHIA.

The sympathy of the trade goes out to Benjamin K. Passmore of Malvern, Pa., who has just lost his boy. The sad event took place on the 6th inst. He was 15 years of age.

Among the odd items to be seen at the Niessen store this week is the Yellow Alyssum, an early spring perennial with long, bright yellow sprigs six to nine inches long. Very attractive. This is said to come from Lancaster County.

The election of George C. Thomas as the next president of the American Rose Society meets with great approval in this country and abroad but nowhere more so than in his home city of Philadelphia where he is thought much more of than wise men and prophets usually are to those quite close to them.

Hon. Chas. H. Sloan of Nebraska made a fine speech on the U. S. Botanic Garden—Its Aims, Objects, and Accomplishments—before the House of Representatives on January 16, 1919. Every one interested in the development of horticulture should have a copy of this speech. Same can be had by dropping a postal to George W. Hess, Superintendent Botanic Gardens, Washington, D. C. No charge.

Charles E. Meehan has sold off his greenhouse materials at the Germantown place and cleared off the land for building. Being in a residential neighborhood we may expect to see soon a few new streets of up-to-the-minute suburban homes for those who can afford them. His new range at Churchville, Bucks Co., is running in full swing, and his time is fairly divided between running this and his wholesale business in Philadelphia.

Charles M. Weaver of Ronks is a sweet pea grower of experience and success and what he has to say is of interest to the trade. Two of the best he has been shipping to Philadelphia recently are Burpee's Primrose Beauty and Burpee's Exquisite, the latter having the brighter pink on the edging and being the best seller of the two. An inquiry from an English grower and Mr. Weaver's reply thereto in this connection will be found in another column and are self-explaining.

Reports coming from Barnegat City, N. J., near Barnegat Inlet, say the lighthouse at that point is in serious danger of being undermined by the sea. During the heavy storms of the last week the sea has encroached to within seventy-five feet of the lighthouse, and many private houses of residents of that place are within fifty feet of the pounding surf. The terrific

current at the Inlet, backed by a powerful sea kicked up by the storms, has cut into the beach for a considerable distance, and unless breakwaters or jetties are constructed before the next heavy storm the lighthouse will surely go down, engineers say. J.

C. Vaughan, Mrs. S. S. Pennock and many others whose poetic fancy has been stirred by this old beacon, will be joining Commodore Westcott in his hopes that Old Boreas will kindly let up for a while until we can raise some cement fortifications.

"Say it with Flowers"

A Spring Song

It must be Spring,
When whip-poor-wills sing,
And the sun-kist meadows are all aflame
With life and joy and everything
That goes to play the eternal game.

It must be Spring
When love is a'wing
And the hearts of maids and youth are gay,
And each fond lover is wondering
Why moon-beams dance o'er the hills away.

It must be Spring when none can know
Why the Gods on Olympus have made it so.

Not an advertisement—just a reminder that Spring is here—flowers are blooming—our victorious heroes are returning, leaving some of their comrades to guard forever the Shrine of Liberty in France—and that poppies grow again in peace in Flanders' Field.

When you Think
of Flowers
Think of Penn

Penn.
The Florist

Boston's
Flowerphone
Beach 6900

124 Tremont Street—Boston

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SAMUEL MURRAY

The Leading Flower Establishment of
KANSAS CITY

Will arrange and deliver orders for flowers, plants
or design work for the trade in any part of the Middle
West. All Goods and Service. Strictly First-Class.

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1017 Grand Avenue,

KANSAS CITY, MISSOURI

IN THE National Capitol

At your service to deliver Flowers
or Designs on Order by Tele-
graph or otherwise. Prompt
Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

Penn
The
Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

**124 TREMONT ST.
BOSTON**

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KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Member Florists' Telegraph Delivery

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Write or Telegraph

2139-2141 Broadway, - New York

Telephone 1552-1553 Columbus

KOTTMILLER, Florist

426 Madison Ave. and 49th St., New
York. Also Vanderbilt Hotel

Telephone, Murray Hill 783

Out-of-town Orders Solicited. Location
Central. Personal Attention.

Member F. T. D. Asso.

**ADAM SEKENGER
FLORIST**

32 NEWBURY STREET, BANGOR, ME.

We Cover all Points in Maine

**Providence, Rhode Island
Johnston Brothers
LEADING FLORISTS**

38 Dorrance Street

Member Florists' Telegraph Delivery

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—The Rosery, 23 Steuben St.
Albany, N. Y.—Danker.

Bangor, Me.—Adam Sekenger, 32 New-
bury St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont St.

Brooklyn, N. Y.—Wilson, 3-5 Greene Ave.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.

Cambridge, Mass.—John McKenzie, 1927
Mass. Ave.

Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.

Cleveland, O.—Knobles Bros., 1836 W. 25th
St.

Cleveland, O.—The Smith & Fetters Co.,
735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643
Broadway.

Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.

East Orange, N. J.—Smith, The Florist.

Fall River, Mass.—Warburton, 495 New
Boston Rd. and 36 N. Main St.

Fishkill, N. Y.—Wood Bros.

Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.

New York—Dards, N. E. corner 44th St.
and Madison Ave.

New York—G. E. M. Stumpp, 761 Fifth
Ave.

New York—Kottmiller, 426 Madison Ave.
and 49th St., also Vanderbilt Hotel.

Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.

Philadelphia—F. M. Ross, 136 So. 52nd
St., 13 So. 60th St., 212 E. Girard Ave.

Philadelphia—Chas. H. Grakelow, Broad
St. at Cumberland.

Providence, R. I.—Johnston Bros., 38
Dorrance St.

Rochester, N. Y.—J. B. Keller Sons, 26
Clinton Ave. N.

St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.

Worcester, Mass.—Randall's Flower Shop,
22 Pearl St.

New York—Thos. F. Galvin, Fifth Ave.,
at 46th St.

DARDS—FLORIST

Established at N. E. Cor. of Madison Ave.
and 44th St., New York, for 44 Years

QUALITY, SERVICE, FAIR PRICES
Members of Florists' Telegraph Delivery

BUY WAR SAVING STAMPS
War Saving Stamps
Issued by the
U. S. Gov.

**JOHN BREITMEYER'S
SONS**

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good
sections of Ohio, Indiana and Canada.
Members Florists' Telegraph Delivery
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GUDE BROS. CO.
WASHINGTON, D. C.

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WILSON BROOKLYN

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3 and 5 Greene Ave. [NEW YORK]
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Phones, Prospect 6800-6801-6802

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LYN and LONG ISLAND

A. T. BUNYARD

NEW YORK

413 Madison Ave. at 48th Street

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MEMBER F. T. D. A.

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

DANKER

Albany, New York

The best of F. T. D. Service always

A Card This Size

Costs only 90c. per Week
on Yearly Order

It would keep your name and your
specialty before the whole trade.

A half-inch card costs only 45c. per
week on yearly order

CHICAGO Send Your Orders to WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

Worcester, Mass.

We will be willing to fill orders for
any of the 1,000 F. T. D.
Florists for Easter.

Randall's Flower Shop

THOS. F. GALVIN INC.

NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

KNOBLE BROTHERS

Member Florists' Telegraph Delivery

We are well equipped to handle
your orders.

1836 W. 25th Street CLEVELAND, O.

THE SMITH & FETTERS CO.

735 Euclid Avenue
CLEVELAND, OHIO

Flowers of Every Kind in Season

CLEVELAND

A. GRAHAM & SON

5523 Euclid Ave.

Will take good care of your orders

Members of F. T. D. Association.

Retail Deliveries

to central Hudson River points, on
Telegraphic Order.

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FISHKILL, N. Y.

S. A. ANDERSON

440 Main St., Buffalo, N. Y.

ANDERSON service means fresh, sturdy
stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK.

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The Best at
The Lowest



"I SERVE"

The Largest Popular Priced House in
Philadelphia

F. M. ROSS

Send orders to

136 So. 52nd Street, Philadelphia.

Other Stores

13 So. 60th St., 212 E. Girard Avenue

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HIGH GRADE PLANTS

For Retail Stores a Specialty

ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.

Quality and Reliability

WARBURTON

FALL RIVER, MASS.

Deliveries of Flowers and Plants
in FALL RIVER and contiguous
territory.

EAST ORANGE, N. J.

SMITH, The Florist

We deliver by automobile in East, West
and South Orange, also Glen Ridge, Mont-
clair, Bloomfield, Newark and New York.

NEW FLOWER STORES.

Utica, N. Y.—The Rose Shop.

New Bedford, Mass.—Williams, the
Florist, re-opening.

Chicago, Ill.—B. J. Lelinke & Bro.,
3802 Chicago avenue.

Columbus, O. Cottage Rose Gar-
den, Niel House lobby.

San Francisco, Cal.—Nazo & Fra-
gosi, 488 Haight street.

Lexington, Ky.—John A. Keller Co.,
135 E. Main street, early in May.

ST. LOUIS, MO.

FRED C. WEBER

4326-28 Olive St.

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THE J. M. GASSER COMPANY,

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The Far-Famed Flowers of

TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP

9-10 West Adelaide St. - TORONTO, ONT

HESS & SWOBODA

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1415 Farnum St.

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Efficient Delivery Service

ALL BOSTON SUBURBS

JOHN MCKENZIE

1927 Mass. Ave., CAMBRIDGE, MASS.

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CHAS. H. GRAKELOW F.T.D.

Everything in Flowers

Broad Street at Cumberland

The Park Floral Co.

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DENVER, COLORADO



ROSE PLANTS

OPHELIA DOUBLE WHITE KILLARNEY

2½-inch pots, \$90.00 per 1000. Fine stock, cuttings made from two and three eye cuttings.

THE LEO NIESSEN CO.

1201 Race Street, PHILADELPHIA, PA.

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Before Looking Elsewhere

Tell Them You Did So And
They'll Reciprocate

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$3.25 50,000...\$9.75 Sample free.
For sale by dealers.

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WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

E. G. HILL CO.

Wholesale Florists

RIEHOOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

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Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

The House for Quality and Service

ZECH & MANN

We are Wholesale Florists Doing
a Strictly Wholesale Business

30 East Randolph Street, CHICAGO



IF You Want Anything from Boston Get It
From Henry M. Robinson & Co.

For Safety Place Your Orders With Us

HENRY M. ROBINSON & CO.

2 Winthrop Square and 32 Otis Street, BOSTON, MASS.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Apr. 11	ST. LOUIS Apr. 7	PHILA. Apr. 7
Roses			
Am Beauty, Special.....	50.00 to 75.00	50.00 to 60.00	60.00 to 75.00
" " Fancy and Extra.....	35.00 to 50.00	30.00 to 40.00	40.00 to 45.00
" " No. 1 and culls.....	2.00 to 10.00	12.00 to 20.00	10.00 to 20.00
Russell.....	6.00 to 15.00	3.00 to 30.00	10.00 to 30.00
Hadley.....	6.00 to 15.00	3.00 to 30.00	10.00 to 30.00
Mock, Key.....	2.00 to 8.00	5.00 to 25.00	..... to
Arenberg, Hoosier Beauty.....	2.00 to 8.00	10.00 to 15.00	..... to
Ward, Hildington.....	2.00 to 8.00	3.00 to 8.00	3.00 to 10.00
Killarney, Key, Taft.....	2.00 to 8.00	3.00 to 8.00	3.00 to 10.00
Ophelia, Sunburst.....	3.00 to 8.00	3.00 to 12.00	3.00 to 10.00
Carnations	6.00 to 8.00	2.00 to 5.00	5.00 to 8.00
Cattleyas.....	50.00 to 75.00	60.00 to 75.00	50.00 to 75.00
Lilies, Longiflorum.....	25.00 to 35.00	15.00 to 20.00	20.00 to 25.00
Lilies, Speciosum.....	8.00 to 20.00	..... to .....	..... to
Callas.....	25.00 to 35.00	12.00 to 20.00	12.00 to 20.00
Iris.....	..... to	8.00 to 10.00	10.00 to 15.00
Lily of the Valley.....	6.00 to 8.00	8.00 to .....	..... to
Snapdragon.....	8.00 to 20.00	5.00 to 15.00	8.00 to 15.00
Pansies.....	..... to .....	..... to	5.00 to 8.00
Daffodils.....	..... to	1.00 to 6.00	2.00 to 6.00
Calendula.....	2.00 to 4.00	1.00 to 4.00	4.00 to 6.00
Stocks.....	..... to .....	..... to .....	..... to
Wallflowers.....	..... to .....	..... to .....	..... to
Mignonette.....	..... to	3.00 to 4.00	4.00 to 6.00
Sweet Peas.....	1.00 to 3.00	.50 to 1.00	1.00 to 3.00
Violets.....	2.00 to 4.00	.35 to .50	.50 to 1.00
Marguerites.....	1.00 to 4.00	..... to .....	.75 to 1.50
Gardenias.....	25.00 to 35.00	..... to	30.00 to 40.00
Adiantum.....	1.00 to 1.50	1.00 to 1.50	1.00 to 2.00
Gladioli.....	..... to	12.00 to 25.00	..... to
Asparagus Plumosus, & Spren. (100 Bchs.).....	35.00 to 50.00	25.00 to 60.00	50.00 to 75.00

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

Wholesale Growers of Cut Flowers

ROSES, CARNATIONS

AND ALL OTHER SEASONABLE STOCK

Shipping orders have most careful attention always

WILLIAM F. KASTING Co.

Wholesale Florists

568-570 WASHINGTON STREET - BUFFALO, N. Y.

EASTER

Be prepared for a record Easter. Have plenty of stock and be assured of having the best quality of

Cut Flowers and Plants

at the lowest possible prices by sending your order to us. We will have the

Largest Supply in New England

of Valley, Peas, Rosses, American Beauties, Calla and Easter Lilies, Carnations, Violets, Orchids, Marguerites, Snapdragons, Bulbous Stock of all kinds and all other Seasonable Flowers.

Memorial Day

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PATRICK WELCH

Flower Market Reports

Roses have flooded the BOSTON market this week and the demand has fallen far short of the supply. An unusually large supply of short stemmed American Beauties are to be seen, but they move fairly well. Carnations have also been a feature in the market, the advance in price being due mainly to their excellent quality rather than to a scarcity of stock. Lilies still continue to be scarce as does also lily of the valley. Bulbous stock is not over plentiful and violets are about done. Sweet peas are plentiful and in good demand. Business is normal, however, but as a rule orders are not sufficient to make a general clean up.

The week-end sales used CHICAGO up practically all the flowers in the market and left a clean slate for the opening of the second week in April. Bright days bring out a big supply of stock and sudden drops of temperature and a cloudy spell reduce the supply again, but the amount coming in the past week has been handled without a loss. Shipping trade is what kept the balance, the demand being more steady than the local call. The middle of the week was quiet, giving wholesalers a

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Apr. 7		CHICAGO Apr. 7		BUFFALO Apr. 7		PITTSBURG Apr. 7	
Roses								
Am. Beauty, Special.....	50.00	to 75.00	50.00	to 75.00	60.00	to 75.00	60.00	to 75.00
" " Fancy and Extra.....	30.00	to 40.00	25.00	to 40.00	40.00	to 50.00	35.00	to 45.00
" " No. 1 and culls.....	12.00	to 25.00	8.00	to 20.00	10.00	to 20.00	.....	to 18.00
Russell.....	10.00	to 35.00	6.00	to 40.00	6.00	to 20.00	12.00	to 30.00
Hadley.....	10.00	to 35.00	6.00	to 40.00	6.00	to 10.00	12.00	to 30.00
Euler, Mock.....	15.00	to 25.00	15.00	to 25.00	5.00	to 8.00	8.00	to 20.00
Arenberg, Hoosier Beauty.....	4.00	to 15.00	6.00	to 25.00	6.00	to 15.00	.....	to 15.00
Ward, Hillingdon.....	10.00	to 30.00	6.00	to 15.00	4.00	to 6.00	6.00	to 15.00
Killarney, Key, Taft.....	10.00	to 35.00	5.00	to 15.00	5.00	to 12.00	8.00	to 15.00
Ophelia, Sunburst.....	10.00	to 35.00	6.00	to 25.00	6.00	to 12.00	8.00	to 25.00
Carnations								
Cattleyas.....	60.00	to 75.00	20.00	to 40.00	60.00	to 75.00	75.00	to 90.00
Lilies, Longiflorum.....	25.00	to 35.00	15.00	to 25.00	15.00	to 20.00	15.00	to 25.00
Lilies, Speciosum.....	.....	to 10.00	.....	to 10.00	.....	to 10.00	.....	to 10.00
Callas.....	25.00	to 30.00	18.00	to 20.00	15.00	to 30.00	12.00	to 20.00
Iris.....	15.00	to 20.00	2.00	to 4.00	12.00	to 15.00	.....	to 15.00
Lily of the Valley.....	4.00	to 8.00	6.00	to 8.00	8.00	to 10.00	.....	to 10.00
Snapdragon.....	8.00	to 15.00	12.00	to 20.00	5.00	to 12.00	.....	to 10.00
Panies.....	1.00	to 2.00	1.00	to 2.00	.50	to 1.00	.....	to 1.00
Daffodils.....	3.00	to 5.00	1.00	to 3.00	5.00	to 6.00	4.00	to 6.00
Calendula.....	3.00	to 5.00	3.00	to 6.00	3.00	to 6.00	.50	to .75
Stocks.....	6.00	to 8.00	.....	to 3.00	3.00	to 5.00	.....	to 5.00
Wallflowers.....	.....	to 1.00	1.00	to 2.00	.....	to 1.00	.....	to 1.00
Mignonette.....	.....	to 8.00	2.00	to 4.00	3.00	to 6.00	4.00	to 6.00
Sweet Peas.....	1.00	to 3.00	1.00	to 3.00	.75	to 1.00	.75	to 1.50
Violets.....	.....	to 2.00	1.00	to 1.50	.75	to 1.25	.75	to 1.00
Marguerites.....	2.00	to 3.00	.....	to 1.00	1.00	to 2.00	3.00	to 4.00
Gardenias.....	.....	to 15.00	.....	to 15.00	.....	to 25.00	.....	to 25.00
Adiantum.....	.....	to 1.00	1.00	to 1.50	1.00	to 3.00	.....	to 2.00
Gladioli.....	20.00	to 25.00	10.00	to 25.00	10.00	to 12.00	.....	to 12.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00	to 50.00	50.00	to 150.00	35.00	to 50.00	25.00	to 75.00

breathing spell. Roses cover all varieties and stock is of splendid quality, while carnations are to be had in extra and in medium grades. Sweet peas are much in evidence at some hours of the day but all are gone when five o'clock comes. There is a large variety of miscellaneous stock but green is scarce.

The market has an adequate supply of CINCINNATI stock at the time of this writing but indications are that by the time that Easter is here the supply will be somewhat short of the demand. Business is holding up well and everything that comes into the

(Continued on page 361)

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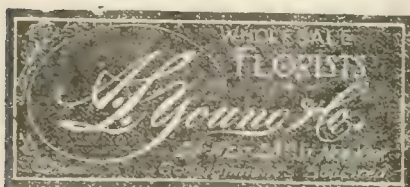
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ROSES AND CARNATIONS	Last Part of Week ending Apr. 5 1919		First Part of Week beginning Apr. 7 1919	
American Beauty, Special	25.00	to 50.00	25.00	to 40.00
" " Fancy and Extra	10.00	to 25.00	10.00	to 25.00
" " No. 1 and culls	3.00	to 10.00	3.00	to 10.00
Russell	4.00	to 25.00	4.00	to 20.00
Hadley	4.00	to 50.00	4.00	to 40.00
Euler, Mock, Key	3.00	to 15.00	3.00	to 15.00
Aronberg, Hoosier Beauty	2.00	to 10.00	2.00	to 10.00
Ward, Hillingdon	2.00	to 10.00	2.00	to 10.00
Killarney, Taft	1.00	to 8.00	2.00	to 6.00
Ophelia, Sunburst	1.00	to 18.00	2.00	to 12.00
Carnations	2.00	to 6.00	2.00	to 6.00

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Flower Market Reports

(Continued from page 359)

market cleans up fairly well. The supply of roses is good and meets with an active demand. Carnations are fairly plentiful and are cleaning up, although during the early part of last week there was a surplus of them. The lily supply is good and promises to be good for Easter but orders for them are coming in strong and the chances are that the entire supply for Easter will be sold before the time arrives. Sweet peas are fairly plentiful. As a whole they are of a good quality. Snapdragon, tulips, daffodils, freesia, iris and Narcissus Poeticus may be had. Other offerings are orchids, mignonnette, stocks, forget-me-not, pansies, calendula and wallflower.

Carnations jump-

PHILADELPHIA ed up a little towards the end

of the week and were bringing from two to three cents more. These were easily the most skittish proposition on the market and no one seemed to know just where things stood. Pretty good roses got only about the same prices as pretty good carnations—which is an unusual situation. The most reasonable explanation seems to be that carnations are a bit off crop for the

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Part of Week ending Apr. 5 1919		First Part of Week beginning Apr. 7 1919	
Cattleyas.....	20.00	to 50.00	20.00	to 50.00
Lilies, Longiflorum.....	10.00	to 15.00	10.00	to 20.00
Lilies, Speciosum.....	.....	to .....	.....	to
Callas.....	8.00	to 25.00	8.00	to 25.00
Iris.....	.....	to .....	.....	to
Lily of the Valley.....	1.00	to 4.00	2.00	to 4.00
Snapdragon.....	5.00	to 16.00	8.00	to 16.00
Pansies.....	.....	to .....	.....	to
Daffodils.....	.....	to .....	.....	to
Calendula.....	1.00	to 4.00	1.00	to 4.00
Stocks.....	.....	to .....	.....	to
Wallflowers.....	.....	to .....	.....	to
Mignonette.....	.....	to .....	.....	to
Sweet Peas.....	1.00	to 4.00	1.00	to 3.00
Violets.....	.20	to .50	.25	to .50
Marguerites.....	1.50	to 4.00	1.00	to 4.00
Gardenias.....	12.00	to 35.00	12.00	to 35.00
Adiantum.....	.....	to 1.00	.....	to 1.00
Gladioli.....	.....	to .....	.....	to
Asparagus Plumosus, & Spren (100 bunches).....	15.00	to 25.00	15.00	to 25.00

time being. Prospects for Easter seem to be very good. How to ensure getting enough to fill the orders seems to worry the plant and flower men this year more than how to find a market for everything in sight.

Business during the past week has been very good with an abundance of material. Large quantities of flowers were sold for decorating the homes of returning soldiers and furnishing bouquets for the officers during the parade. Roses and violets are of good quality and meet

the demand. Callas are good and fairly plentiful. Carnations are in abundance and move well. Sweet peas are of excellent quality and are bringing a better price for the longer stemmed. Snapdragon in long and short stems are very popular. Lily of the valley is good and sells well. Forgetmenots, calendulas, wallflower, baby primrose, pansies and schizanthus are popular in mixed boxes of flowers. Some very good potted genista, rhododendrons, rambler rose bushes, lilac, azaleas and hydrangeas bring good prices. Smilax, leucothoe and asparagus are in good supply.

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peas were abundant, but at time of
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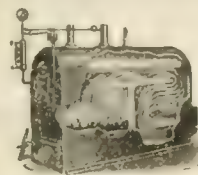


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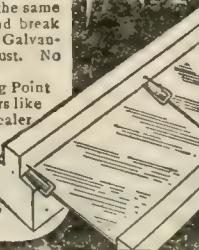
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HORTICULTURE

Vol. XXIX

APRIL 19, 1919

No. 16

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LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....387	Clarke, D. Sons...380	Hart, Geo. B....382	McKenzie, John...381	Rice & Co., Je- rome B.....366	Stumpp & Wal- ter.....366
Allen, J. K.....384	Coan, J. J.....384	Helstad, H.....367	Michell, H. F. Co.377	Robinson, Henry M. Co.....384	Thorburn, J. M. & Co.....366
American Bulb Co.....366	Cooke, Geo. H....380	Hentz & Nash...384	Michigan Cut Flower Ex....382	Robinson, H. M. & Co.....382	Totty, Chas. H...368
American Fores- try Co.....375	Conard & Jones.375	Hess & Swoboda.381	Murray, Samuel.380	Roehrs, J. Co....375	United Cut Flow- er Co.....384
Anderson, S. A...381	Cowee, W. J....382	Hews & Co., A. H.....386	Nicotine Mfg. Co.387	Roland, Thomas.381	Vincent, R. Jr. & Sons Co....365
Aphine Mfg. Co.378	Craig Co., Robt.367	Hill Co., E. G....382	Niessen, Leo Co.382	Rosery, The.....380	Wants, For Sale, etc.....386
Barrows, H. H...367	Danker.....380	Hill, D. Nursery Co.....375	N. Y. Botanical Gardens.....373	Ross, F. M.....381	Warburton.....381
Bay State Nur- series.....367	Dards.....380	Howard, W. D...373	Palmer, W. J. & Son.....381	Schultheis, An- ton.....368	Weber, F. C....381
Bobbink & At- kins.....367	Dreer, H. A.....387	Irwin, R. J.....366	Park Floral Co...381	Sheridan, W. F...384	Wilson.....380
Boddington Co., Inc., A. T.....377	Dunlop, John H.381	Johnston Bros...380	Parshelsky Bros.387	Siebrecht, Geo. C.384	Wood Bros.....381
Boliano & Son.366	Dysart, R.....384	Kasting, W. F. Co.....382	Penn the Florist.380	Siggers & Sig- gers.....386	Woodmont Nur- series.....375
Boston Floral Supply Co.....384	Edwards Folding Box Co.....382	Kelway & Son...366	Pennock, S. S. Co.....365	Skidelsky, S. S. & Co.....366	Woodruff, S. D. & Sons.....366
Breck, J. & Sons.366	Elm City Nur- series.....375	Kervan Co.....384	Pino-Lyptol Chemical Co...378	Smith, Elmer D. & Co.....367	Young, A. L....384
Breitmeyers, J. Sons.....380	Farquhar, R. & J. Co.....366	Knoble Bros....381	Pierce Co., F. O.387	Smith, W. & T. Nursery Co...375	Young, John....384
Budlong, J. A....382	Fengar, E. W....367	Kroeschell Bros.387	Pierson, A. N....365	Smith, The Flor- ist.....381	Zech & Mann...382
Bunyard, A. T...380	Ford, M. C.....384	Kuebler, W. H.384	Pierson, F. R....365	Smith & Fettes Co.....381	
Burnett Bros...366	Ford, P. P.....384	Kottmiller.....380	Pulverized Ma- nure Co.....378	Smyth, Wm. J...381	
Burpee, W. A. & Co.....366	Froment, H. E...384	Lemon Oil Co...378	Randall Flower Shop.....381	Stumpp, G. E. M.380	
Carter's Tested Seeds, Inc.....366	Galvin, Thos. F.381	Liggit, C. U....367	Reed & Keller...384		
Childs, John Lewis.....375	Gasser Co., J. M.381	Lord & Burnham Co.....364	Reidel & Meyer.384		
	Graham & Son, A.....381	McHutchison Co.339	Reid, Edw.....382		
	Grakelow, Chas. H.....381	Marshall, W. E. & Co.....366	Reuter, L. J. Co.368		
	Grey & Co., T. J.366				
	Gude Bros. Co...380				

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Publicity among the kind of readers reached
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MASSACHUSETTS FORESTRY ASSOCIATION

The Massachusetts Forestry Association is in hearty accord with the editorial which appeared in the March number of "American Forestry" the official magazine of the American Forestry Association. We believe that the facts and arguments contained in this editorial should be brought before the people of the State in order that forestry in Massachusetts may not be retarded through unwise legislation. The Editorial follows:

Reorganization in Massachusetts

Forestry in Massachusetts is facing the problem of reorganization. The Constitution provides that all of the State's activities, now numbering some 110 departments, must be reorganized into not more than 20. The wisdom of such a provision is not a subject of debate since the matter is settled. It remains to determine what will become of State forestry in the scramble.

The answer depends upon the at-

titude which the people of Massachusetts take toward State forestry and their estimate of its relative importance in the general scheme of things. First, is forestry of sufficient importance in the economic welfare of the State to merit a separate organization as one of twenty departments? Second, if not, what combination will give the best results for forestry and for the public?

The handicap under which forestry as a public policy has suffered in this country is a surprising lack of foresight and comprehension of what it means in the economic life of the average man. Prices of wood products go up at a rate faster than that of other commodities, and the public grumbles and seeks for evidence of a lumber trust, when the cause lies in the denuded hills at their own doors and the freight bills on Oregon fir. Hindsight may be better than foresight. Many a bankrupt can understand the causes for his failure after it happens. We are steadily bankrupting our forest industries and riotously expending the inheritance of nature, which we did not produce. Meanwhile there appears in our press such articles as "Timber's Horn of Plenty," in the *Literary Digest*, which lulls our senses to sleep by remarkable perversions of facts regarding the abundance of our timber supplies.

Three-fifths of the State's area unsuited for agriculture, but capable of producing 2,000,000,000 feet of timber annually, and with manufacturing industries dependent for their continuance on home-grown timber and a lumber industry capable of employing permanently 30,000 men; with streams furnishing water power of tremendous value to her chief industries, and dependent absolutely on stream regulation through maintenance of forest cover; with the scourge of the gypsy and brown-tail moths and the white pine blister rust calling for the united efforts of all organized forces to prevent the complete destruction of both forest and shade trees, the State of Massachusetts still hesitates whether to put State forestry as one of her 20 departments. Yet this department is now nineteenth in point of appropriation and number of employees among the 110 branches of the present government.

Perhaps it is because the work of this department has scarcely begun, and for lack of actual demonstration of results, that the department is looked upon as a minor branch of the

State's activities. In other words, foresight is to be eliminated in this reorganization of Massachusetts State Forestry, and the departments are to be crystallized in their present form.

That is just the reason above all others which demands a separate organization for State forestry. It is NOT established—the tremendous need for rapid expansion is clear to all who have true foresight. How is the average citizen ever to be brought to realize his need and to support the economic program of reforestation, fire protection and regulated timber cutting unless the State Department of Forestry is free to expand this educational work and its demonstrations of practical results? And if one thing has been clearly demonstrated in our State governments, it is the fact that when forestry departments are subordinated as a minor branch of a large organization, the scope of the forestry work becomes limited to the ideas, not of the forester, who comprehends the situation, but to some game warden, agricultural commissioner, or highway engineer, who provides first for what he does comprehend and permits forestry to gather the crumbs which fall from his table.

The future of State forestry in Massachusetts is in the balance. Pennsylvania's wonderful progress in forestry followed a reorganization which created the Department of Forestry as a separate organization in 1901. Massachusetts cannot afford to overlook the task ahead, for there will come a time when camouflage and evasion of economic facts will no longer be accepted by the citizens of the Commonwealth, and they will ask, "Why are not these things done, and what has the State Forestry Department been doing to enlighten us and to protect our welfare?" The answer will be: "In 1919 the citizens of Massachusetts did not consider the State Forestry Department of sufficient importance to stand alone and bear its own responsibility for success or failure. You placed us under another department, and we have been powerless to grow to the measure of our responsibilities. The fault rests on your shoulders."

These are the questions to be met in the next few weeks by the great and general court of Massachusetts, which is trying to reach a wise solution of her problem. May we hope that they will have foresight and place the responsibility of the forestry program squarely on the shoulders of a separate Forestry Department.

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GROWING AND FORCING HYDRANGEAS FOR EASTER

In growing hydrangeas for Easter, a start must be made 14 months previous to that date, or during January or February, according to the date on which Easter falls, by making cuttings of sucker-growths from the plants that are being forced, or, better still, from older plants which have been grown especially for the production of cuttings. The cuttings from such plants are growths which will not produce a flower that season, whereas with well-grown plants intended for Easter forcing, it is almost impossible to obtain a pure sucker growth or growth of any kind for the purpose of cuttings without interfering with the balance of the plant. The cuttings are made in the usual way, and rooted in gentle bottom heat in a moderately warm house. When rooted they are placed in three-inch pots and grown for several weeks in a fairly warm house to give them a good start, after which they are placed in a cool house. The plants remain in this pot until the end of May or thereabouts, when they are placed in five-inch pots and grown in the greenhouse for a few weeks. Then they are plunged to the rims in frames for the balance of the summer.

Early in September the pots are lifted, the bed levelled over and the plants set on the surface in order to better control the moisture condition of the soil. This is the beginning of the ripening-down process which is all important if satisfactory results are to be obtained. The plants from now on are watered only when it is necessary to keep them from flagging. Handled thus, they are gradually ripening down while it is still early fall. They are left in frames as late as it is safe to leave them, in the meantime being protected from frost. When the weather becomes too cold, the plants are housed in the coldest end of a violet house to finish ripening down, water being given as before—only when the soil is on the dry side. When all the leaves have dropped the soil is given a thorough soaking and the plants stacked up on the wall plate for the balance of the resting period. They could, however, be placed in a bulb cellar after all leaves have fallen, but certainly not before. During the resting period, the soil is never allowed to approach dryness.

Depending upon the date of Easter, the dormant plants are started into growth from the middle of December until the first week in January by giving a temperature of 40 degrees. When they show signs of activity, an increase of from 5 to 10 degrees is given for about a week, after which a steady night temperature of 60 degrees is maintained with a considerable increase by day according to the weather and careful ventilation.

The plants make rapid growth the first six weeks, and one may think they are coming along too fast. This is just where some growers are apt to fool themselves, and is responsible for as many plants not being in on time. The experienced grower knows this, and is seldom, if ever, caught napping. It is much the safer and better plan to have them ahead of time, as in that case the plants can be finished off in a cooler temperature and will stand rougher handling, besides giving better satisfaction to the buyer.

The reader will notice that the plants received no change of pot from the time they were potted the May previous, and yet the majority of the plants carry four, five and some six blooms with foliage as dark as is possible with forced stock. As may be expected, plants to that size in such a small pot will require close attention to watering during bright weather, and also that something more than water from the hose be given them. Feeding commences soon after the plants are started. This is given first of all in the form of a top-dressing. To make room for a top-dressing that will be of any service, the surface soil is loosened, removed and replaced with fresh soil, into which a fertilizer composed of fine bone meal, dried blood and superphosphate has been mixed at the rate of a good-sized teaspoonful to each plant. Three weeks later, feeding in the form of a liquid cow-manure and nitrate of soda at the rate of a teaspoonful to a gallon is given alternately every second watering for a week or so, after which one or the other is given every time the plants are watered. Liquid manure is withheld the last week on account of its disagreeable odor.

As each plant reaches the stage when the blooms have taken on their proper color, they are removed to slightly cooler quarters, where a little shade is given during the bright part of the day. All plants are finally finished off in a temperature of 50 to 55 degrees.

One of the questions which the reader may ask is, Why grow the plant in such a small pot? The chief reason is that the pot is quite large enough to maintain the young plants in good growing condition during the growing season, and sufficiently small that the entire soil is a mass of roots by early fall. Plants in this condition are in perfect shape for ripening down, as soil is more or less poor and the soil moisture more easily controlled. Hence ripening down is a simple but, as experienced growers know, an all-important matter. The reason why plants are flowered in the same pot is that our particular trade calls for plants in pots that are more or less light to carry. Apart from that, however, I see no reason for shifting them into larger pots shortly after they have been started into growth, unless because they require less attention in watering, as feeding has to be done in either case with liquids with the same results.

An article on hydrangeas would not be complete without touching on the "yellows." This is due, in my opinion, to plants not being properly ripened down early enough in the fall to allow a reasonable period of rest before being started into growth again. One is apt to get what may be termed a touch of the "yellows" on well grown plants, but this is not the true "yellows." The "yellows" is in evidence in the early stages, whereas this slight paleness does not show up for some time, and may be due partly to the forced conditions under which the plants are growing, but chiefly to the lack of nourishment in the soil. This is easily remedied by giving the liquid manures already mentioned.—*Canadian Florist.*

HORTICULTURE

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CONTENTS

	Page
MASSACHUSETTS FORESTRY ASSOCIATION.....	368
GROWING AND FORCING HYDRANGEAS FOR EASTER	369
SOCIETY OF AMERICAN FLORISTS—National Publicity Campaign	371
HYDRANGEA MME. MAURICE HAMAR, <i>Illustrated</i>	372
CLUBS AND SOCIETIES—R. I. Horticultural Society Chrysanthemum Society of America—Florists' Telegraph Delivery Association—Lancaster County Florists' Association	374
Florists' Club of Washington.....	383
OBITUARY—Geo. C. Worthen—Henry D. Rohrer.....	375
ADVICE FOR BEGINNERS, <i>Edward Williams</i>	376
SEED TRADE—Seed Trade with European Countries.....	377
BETTER FRUIT FOR NEW ENGLAND, <i>M. G. Kains</i>	378
LOCAL AND GENERAL NEWS:	
St. Louis	378
Rochester, Chicago, Philadelphia.....	379
DURING RECESS—Florists' Club of Washington.....	380
FLOWER MARKET REPORTS:	
Rochester, Philadelphia.....	383
Boston, St. Louis, Chicago, New York.....	385
MISCELLANEOUS:	
Forcing Bulbs with Electric Lights.....	372
Some Attractive Laburnums.....	373
Fertilize the Garden	373
Greenhouses Building or Contemplated.....	377
Patents Granted	378
The Buyer That Was a Little Too Shrewd.....	379
Sanguinaria Canadensis	385

A notable
flower show

The Massachusetts Horticultural Society has decided to hold an Orchid Show next year which will open on Wednesday, March 24th. This will bring it three days after the closing of the S. A. F. Flower Show in New York and it will close a week before Easter so that trade exhibitors from a distance will be able to attend to their exhibits in Boston personally without interference with the New York Show or their Easter work. An elaborate prize schedule is

now being prepared with an allotment of four thousand dollars for the orchid classes. Prizes will be offered for seasonable bulbs and other plants. Preliminary schedules will be ready in a few weeks and may be had on application to the Secretary of the Society, Mr. Wm. P. Rich, Horticultural Hall, Boston.

Exorbitant
freight rates

Nurserymen and florists who have had plants come from Holland this season have been compelled to pay to the Holland America Line rates of freight which appear to us to be unwarrantably high. We cannot see why such rates, even under present conditions should approximate nearly four times what prevailed before the war. The only alternative the importer has at present, is to route his shipment via Antwerp by the Cunard Line, which now has transatlantic service with that port. It is also announced that the Cunard has despatched a steamer from New York which will call at Rotterdam as well as Antwerp and it is understood that the port of Rotterdam will hereafter be regularly visited by steamers of that line. It is decidedly to the interest of importers to encourage Cunard competition rather than to continue with a line which has practiced extortion in its excessive freight charges.

Conifers
to cost more

Everyone owning a suburban or country home wants to have at least conifers for the sake of their cheery green foliage during the winter months. The propagation and growth of conifers to salable size takes about three times the length of time necessary to get most of the deciduous shrubs to a like stage and the cost consequently of producing them is correspondingly increased. Then, too, the production of conifers in this country has not kept pace with the production of flowering shrubs so that there is relatively little stock of the former on hand. It will be impossible, owing to the new quarantine embargo, to obtain them in anything like the quantities that they have been used in the past. Their use must be of necessity diminished and inevitably their price will go up. One redeeming feature in the situation will be that such conifers as we get of home production will be of the more hardy types since it will not pay growers to attempt many of the half-hardy kinds which heretofore have been imported from Holland. The Japanese yews are perhaps the most satisfactory of all our dwarf conifers, being extremely hardy although of very slow growth. *Retinospora pinofera* and its drooping form *R. filifera* are also very desirable and have been found more hardy than most of the other *retinosporas*. The hardier forms will of course be those most extensively grown, but it will take decades to produce at home a sufficient supply.

NOTICE TO ADVERTISERS AND CORRESPONDENTS

Owing to delays in second-class mail delivery, beginning April 23, HORTICULTURE will go to press on Wednesdays instead of Thursdays, as heretofore. All copy must reach this office on or before Wednesday noon of each week.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

NATIONAL PUBLICITY CAMPAIGN.

Our Promotion Bureau now has available a new series of electrotypes featuring the large advertisements running in sixteen national magazines, covering April and May. Florists who have not received a copy of the "broad-side" describing these new aids, should make application for one at once. In the same publication is described the new series of lantern slides for use in moving picture theatres. The first series is still in supply and is well augmented by the new set. Combined, the two series cover several important phases of the florists' business. "Mother's Day," and "Memorial Day" are included in the combination, and the slides feature the sentiment of these days perfectly.

Our Bureau has many times been congratulated upon the quality of these slides, and their distribution has been large. The name and address of a purchaser appears on each slide, and the price is \$2.00 per set, or \$4.00 for the combination of eight slides.

Preparations for Easter should not be an excuse for lack of interest in the campaign. It is not to be supposed for one moment that there is a florist in this big country who is not familiar with the work of the campaign, or the beneficial results accruing from it. Yet there are thousands who have not yet subscribed a penny to the Campaign Fund which is providing so much.

Our committees are trying to raise this year \$100,000, which is not more than \$5.00 per capita of those engaged in our industry as proprietors of establishments—split into monthly payments this would be less than 50c. per month, the price of three good cigars, say.

Just read this letter, received by the Secretary, from a southwestern florist and covering a remittance: "The writer, now in his 70th year feels he hasn't many more pleasant summers to spend in the field of the florist game, but is a well wisher to the calling. He is living on the ground where the first commercial greenhouse in the state was built in 1845. "Say it with Flowers" is certainly the greatest slogan ever used. We are like small potatoes in old Ireland—no big things. We

read through the trade journals of the great work you are doing. Let us, as small potatoes, thank you."

It is the support of the "small potatoes" we want particularly. Through this campaign such will have a chance to grow into large tubers. They are not asked to subscribe anything beyond their means, and there is no criticism. If a florist feels he can only subscribe \$5.00 or \$6.00 a year, why not send it. He not only registers the fact that he is a "real" American florist, eager to boost any movement which promises good to his profession, but he endorses the work of those who are giving of their time and ability to a common cause. We have room for a very large number of small potatoes—and we want them.

JOHN YOUNG, Secy.

1170 Broadway, New York.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Review of the work of the examining committee for the season of 1918.

Exhibited by Elmer D. Smith & Co., Adrian, Mich., at Cincinnati: Uvalda, white pompon, 90; Leilah, pink pompon, 86; Pomona, white anemone, 95; Sun Glow, yellow inc., 86; Artisan, white Jap., 82; Cheyenne, Bronza Jap., 83; White Gem, white pompon, 90; Buena, bronze pompon, 89; Titanic, white inc., 90; Silver Ball, white inc., 90; At Chicago, Uvalda, 90; Leilah, 91; Ouray, Maroon pompon, 91; Vasco, yellow pompon, 91; Cometo, pink pompon, 95; Pomona, 95; Sun Glow, 92; No. 114-4-16, white inc., 83; Artisan, 91; Cheyenne, 92; White Gem, 96; Buena, 92; Titanic, 89; Silver Ball, 85; Victory, white inc., 87; Loyalty, yellow inc., 88.

E. G. Hill Co., Richmond, Ind., Celebration, yellow inc., 91; Delight, Pink Jap. reflex, 92.

Mt. Greenwood Cemetery Association, Morgan Park, Chicago, Ill.; No. 4, 1916, yellow inc., 91; No. 1, 1916, pink inc., 90; No. 28, 1916, bronze Jap., 88; No. 20, 1916, white Jap., 92.

Alex. Robertson, Montclair, N. J., Mrs. Edwin H. Bennett, pink single, 85.

Wm. Whitton, Greenwich, Ct., Greenwich, magenta single, 85; Alex. Clarkson, magenta single, 85; Alice, bronze single, 89; No. 3, red single, 78.

Rodman & Sons, Brooklyn, N. Y., No. 4, bronze Jap., 82.

Harry Ekas, Baltimore, Md., blush pink sport of Mrs. E. A. Sledewitz, blush pink inc., 87.7

Henry Schneckpepper, Glendale, La. I., light pink sport of Mrs. E. A. Seidewitz, inc., 86.

Davis Floral Co., Davenport, Ia., Mary Louise, bronze inc., 79.

E. H. Mazey, Minneapolis, Minn., Agnes Maxey, bronze pompon, 91.

S. R. Cowey, Walpole, N. H., Radio, pink anemone, 90; Monadnock, yellow anemone, 90.

Chas. H. Totty, Madison, N. J., Mildred Presby, pink single, 95; Lily Neville, white single, 94; Gloriana, bronze single, 89; Mrs. Charles Cleary, bronze red single, 89.

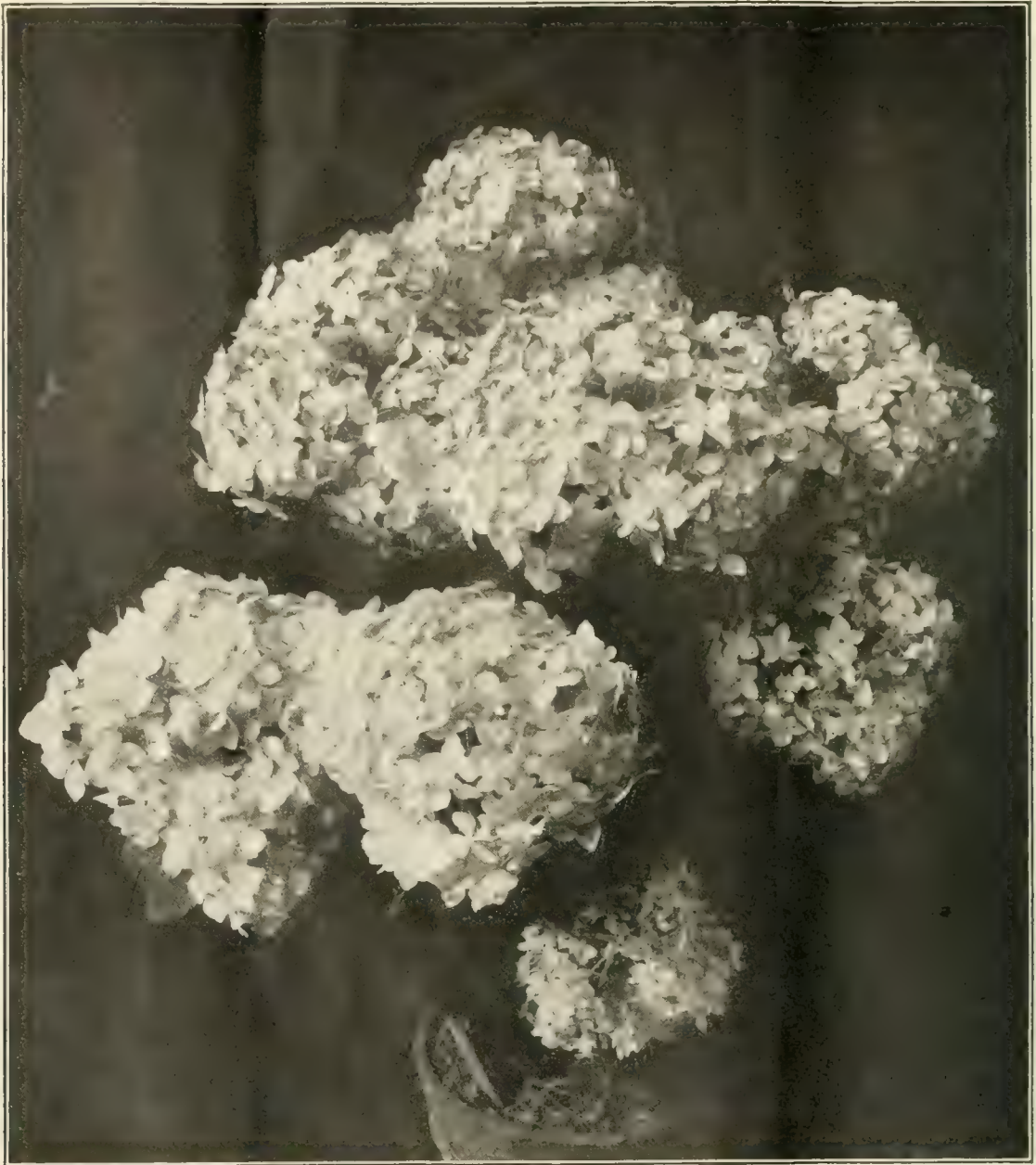
Frank J. Coll, Haverford, Pa., Mrs. J. Leslie Davis, pink inc., 91.

Robert L. Dunn, St. Catharines, Ont., Robert E. Mills, yellow inc., at Chicago, 87; at New York, 86; at Boston, 89.

The following varieties were registered during the year: Victory, seedling white jap. inc., Elmer D. Smith & Co.; Mary Louise, bronze sport of Patty, Davis Floral Co.; January Gold, golden yellow sport of Mistletoe, L. M. Smith Quality Flower Co., Laurel, Del.; Dr. Hitch, white and lavender sport of January Gold, L. M. Smith Quality Flower Co.

CHAS. W. JOHNSON, Secy.

Rochester is to share in some of the fruits of the exploration of E. H. Wilson. Mr. Wilson brought back with him about three hundred new plants, shrubs and trees, the seeds of which will be distributed to several parks throughout the country including Rochester. Mr. Wilson has brought from Korea new varieties of peas and crab apples, which will flourish in Northern States and also has a collection of low ground covering evergreens as well as some new varieties of birch, oak maple, fir pine, elm, cedar and spruce.



HYDRANGEA MME. MAURICE HAMAR.

FORCING BULBS WITH ELECTRIC LIGHTS.

Mr. Wheeler, the assistant in horticulture and gardener at the New York State School of Agriculture, Morrisville, has been carrying on an experiment with Tulip Bulbs to show the effect of electric lights on the same.

One hundred-twenty bulbs were placed in a store room in the cellar after celery was removed and one electric light (40 candle power) was allowed to burn six hours a day. The experiment has been continued for three weeks and the bulbs have each pushed up two or three leaves and a flower book which is practically per-

fect. No sunlight can enter the cellar so the growth has been due entirely to electricity. There is room for fifteen hundred bulbs in the cellar and all could be forced by means of the one light though two lights would probably be better. The cost of current for the experiment was \$.63, or double (\$1.26) if two lights had been used.

As greenhouses are filled to capacity early in the spring, it should be of great advantage to be able to force the bulbous plants in a cellar and the cost of electricity is probably a great deal less than the value of the space that would be necessary for the same plants in the greenhouse. The only difference between the normal plants and the

electric grown plant is that the leaves of the latter are a lighter green. A great advantage in forcing the bulbs by electricity is that the flower can be held indefinitely. By subduing the light buds can be held from one to two weeks. The bulbs were grown at a temperature of 50 degrees F.

The keeping qualities of the bloom seemed about the same as a normal flower except when placed in a warm room in strong sunlight the electric grown flower opened more rapidly.

Though there is much chance for more experimenting along the same line, it seems as if enough has been accomplished to at least show that electricity may be used successfully as a commercial proposition under certain conditions.

T. H. T., Morrisville, N. Y.

SOME ATTRACTIVE LABURNUMS.

The Laburnums are among the most useful flowering trees, for they are perfectly hardy, thrive in many different kinds of soil and under very varied conditions, are suitable alike for large and small gardens, and give excellent results in town and country. Moreover, they can be used for forcing in spring, although rather more difficult to deal with in that respect than many other subjects. Nor is it alone as ornamental trees that the Laburnums demand consideration, for, although the wood is small, it is among the most beautiful of all European woods when properly worked. It is very hard and close-grained, the heart-wood being dark brown or sometimes nearly black, and the sap-wood yellow. When worked up and polished, it bears a resemblance to ebony, and can be used effectively for cabinet work, turnery, etc. At one period of our country's history it was used in addition to the wood of the yew and one or two other trees for the manufacture of bows.

Propagation of the species is so easily effected by seeds that there is no reason for adopting any other method, but the varieties and hybrids must be increased by grafting or budding upon stock of the common kinds. Pruning is only necessary in the early stages to shape the trees; in fact, it is not advisable to prune old specimens if it can be avoided, for the wounds do not heal well. A word of warning is necessary regarding the poisonous character of the seeds and branches, for cases have been recorded of death or severe sickness among children and animals who have eaten the seeds or branches.

The two best known are *L. vulgare*, the common Laburnum, and *L. alpi-*

num, the Scotch Laburnum. The first named may be found at any height up to 30 feet, with a rather thin head of branches and a trunk sometimes a foot in diameter. The cylindrical racemes of flowers are up to 6 inches long and borne in May. There are many variety. *Alschingeri*, however, differs in rieties, but few are superior to the the shape of the flowers; aureum has golden leaves; and pendulum, pendent branches. Such kinds as involutum, quercifolium and sessilifolium are distinguished by their deformed leaves. The Scotch Laburnum flowers two or three weeks later than the common kind. Like the other species, it is a native of Central and Southern Europe, and grows almost as tall, but is easily distinguished by its larger, darker-colored leaves and longer inflorescences. Of the two it is the better tree to plant. Of several varieties, grandiflorum and Latest and Longest are very distinct. The former produces racemes 10 inches to 15 inches long, and in the latter case the inflorescences are often 15 inches to 20 inches long. Autumnale is a variety that bears a second crop of flowers in autumn. Of several varieties that have been raised between these two species, the best is *L. Watereri*, an exceptionally free-flowering and vigorous tree which bears racemes of flowers up to 9 inches or 10 inches long. When only one Laburnum is wanted, this should be selected.

L. Adamii is a very curious Laburnum, for it produces two distinct types of growth and three different kinds of flowers. It originated near Paris in 1825 as a graft hybrid after *Cytisus purpureus* had been grafted upon *L. vulgare*. The hybrid bears racemes of yellow flowers, racemes of purplish flowers, and patches of growth exactly like *Cytisus purpureus*, bearing similar leaves and flowers. Although less beautiful than an ordinary Laburnum, its singular appearance both when in and out of bloom makes it an interesting tree for the garden.—*W. D., in The Garden.*

FERTILIZE THE GARDEN.

Fertilizers mature the vegetables early, increase the yield, and improve the quality. For the home garden, manure is the common fertilizer. It makes the garden soil open, deep and mellow, the proper condition for a soil hoed as much as the well cultivated garden is. However, according to W. A. Albrecht of the University of Missouri College of Agriculture, it is a poorly balanced plant ration, supplying nitrogen in abundance to develop the leaves and stems of the plant, but deficient in phosphorous, which is necessary for root, fruit and seed growth. Most soils are low in phosphorous and manure in the garden should therefore be supplemented by commercial fertilizers rich in this element of plant food. Even though manure may not solve the fertilizer problem completely it is the best general fertilizer to use on the garden and should be used freely. The addition of some phosphorus or commercial fertilizer, however, is a paying practice.

An application of well rotted horse manure at the rate of 10 to 15 tons per acre is not excessive. When possible this should be supplemented by either a complete fertilizer or acid phosphate. Phosphate applied on the surface in the early spring at the rate of 3 to 5 pounds per square rod will improve general garden crops. Where complete fertilizers are used they may be varied somewhat to suit the vegetables. For cabbage crops, roots, sweet corn, lettuce and other leaf crops a fertilizer labelled 3-12-2 or 3-12-0 is recommended, to be applied at about the same rate as acid phosphate.

For potatoes, onions and early peas, which demand more potash a 2-10-4 might well be used, especially on the heavier clay soils well manured. The ammonia helps start the crops in the early spring before the soil is warm enough to liberate the needed plant food. The high content of phosphoric acid makes up the shortage in the soil, while potash is used on soils low in decaying organic matter and for crops demanding much of this plant food. Where the above fertilizers cannot be had, those with less ammonia may be used. The potash is not essential except on sandier or lighter soils. Phosphorus is the first plant food to consider for any garden, regardless of the soil. Where less manure is used the rate of application may be increased to as much as ten pounds per square rod. The cost of fertilizer for the home garden will be small, and the money so spent gives big returns.

INSTRUCTION IN GARDENING

Practical instruction is offered in vegetable, flower and fruit gardening, greenhouse and nursery practice, together with lectures, laboratory, field and shop work in garden botany, zoology, pathology, landscape design, soils, plant chemistry and related subjects.

The curriculum is planned for the education of any persons who would become trained gardeners or fitted to be superintendents of estates or parks. Students may be admitted at any time.

Circulars and other information will be mailed on application.

The New York Botanical Garden

Bronx Park NEW YORK CITY

Chrysanthemum Cuttings

Major Bonnaffon, Chas. Razer, Oconto, Pacific Supreme and Chrysolora, ready April 1st, \$2.50 per hundred.

Also, Extra Strong Cuttings of Carnation Matchless, \$20.00 per thousand.

W. D. HOWARD

MILFORD, - - MASS.

CLUBS AND SOCIETIES

RHODE ISLAND HORTICULTURAL SOCIETY.

The April meeting was held in the Lecture Room of the Public Library, Providence, on Wednesday evening, April 16, 1919. Mr. Joseph J. Pillsbury, of the State Board of Agriculture, lectured on Insect Pests and Plant Diseases, and told how to control insects and plant diseases which attack garden and orchard crops.

FLORISTS' TELEGRAPH DELIVERY ASSOCIATION.

The following timely advice was sent out from headquarters last week:

Warning to F. T. D. Members.

Be sure and make your telegrams for Easter orders plain and correct, read over twice before sending them.

Be sure and get correct addresses.

Do not encourage orders too small but do not deny F. T. D. Service to people who cannot afford more.

Remember that in a great many parts of the country it is very hard to make deliveries of plants and cut flowers for less than \$3.00 or \$4.00 and have them be a credit to the sender as well as the florist who makes the delivery.

Be sure and acknowledge every order immediately after you receive it.

Be sure and mail bill immediately after your Easter rush is over.

Be sure and always state a price limit on your orders, you may be selling a dozen roses for \$3.00 and in some other town they may sell for \$5.00 or \$8.00 per dozen.

Be sure and give the man who fills the order a chance to do his best, leave some leeway and tell your customer that the man at the other end will do his best.

We have now eight hundred and fifty F. T. D. branch stores.

THE LANCASTER COUNTY FLORISTS' ASSOCIATION.

Via trolley train and machine about forty of the craft met at the greenhouses of Chas. M. Weaver, Ronks, Pa., and made a thorough inspection of the new early flowering sweet peas, the regular houses of sweet peas, the house of mignonette and the hundreds of thousands of pompon chrysanthemums

in process of preparation for the fall crop in these houses. The early flowering sweet peas were from the Burpee collection, the result of crosses by Geo. W. Kerr and the quality of the flowers were a revelation to all of us. In addition to this was the pleasure of Mr. Kerr's company in going through the houses and his pride in and love for his productions demonstrated an old time truth "the man who forgets self, and really loves his work is the man who gets to the top." Mr. Weaver furnished cigars for the crowd and the houses were fumigated en route. At 7 p. m. an adjournment was made to Elmer Weaver's greenhouses across the way where sweet peas are the main crop, carnations a close second and later on the peas will be followed by a crop of tomatoes. At 7.30 a supper was provided for the party by Elmer Weaver and served by the Ladies Auxiliary. About 8.30 the president rapped for order and announced the meeting open. After a bit of preliminary business Geo. W. Kerr read an interesting and instructive paper on the manner in which he produced the sweet peas we had just seen, and opened the eyes of our members to the possibilities of hybridization in a way that they never had presented in as attractive manner before.

Visitors to the meeting were James L. Brown of Coatsville, Wm. Swayne, Edw. Marshall, Lawrence & Howard Thompson, Frederick Carey from Kennett Square and Geo. W. Kerr and S. S. Pennock of Philadelphia.

The Ladies' Auxiliary met for a business session at the home of Mrs. Chas. M. Weaver and then after serving the lunch met in conjunction with the club. Mrs. A. M. Herr, president of the Auxiliary, thanked the club for the privilege of being able to listen to such an interesting paper and hoped that we would have many more joint meetings so that they could learn more of their husband's business and some of the husbands are guessing yet.

A vote was taken as to the place to hold our next picnic and by a large majority Wild Cat was the chosen place. Wild Cat is a river resort above Marietta and has one of the most picturesque glens found any where and an observatory that gives one a view up and down the river for miles. It is nationally known by its being the home of the Wild Cat Club, a club that has membership in all parts of the

United States and at its annual meeting they nearly all attend.

After a vote of thanks being tendered the hosts and the Secretary instructed to send Mr. Kerr a vote of thanks for his paper the meeting adjourned to meet at the home of B. F. Barr in peony time, the date left to Mr. Barr and which will be announced later on.

ALBERT M. HERR.

CONNECTICUT HORTICULTURAL SOCIETY.

A wonderful exhibit of schizanthus was made in the rooms of the Connecticut Horticultural Society on Friday evening, April 11th, H. R. Hurd, head gardener of the Vine Hill Farms, made the display and delivered a most interesting address on the culture of this delightful flower.

He stated in part as follows: The schizanthus or "Butterfly Flower" also known as "The Poor Man's Orchid" is a herb imported from Chili, South America. There are about six species, most of which have cut leaves. The culture requires a light soil and the plants should be repotted often as the roots grow very fast. The red spider and the white fly are its worst enemies, and close attention is necessary to keep them under control. The schizanthus has a range of color as varied as a rainbow. There are four types: hybrids, Wisetonensis, Retussus, and Pinatusus. The hybrids are the largest. Wisetonensis is very popular, being white with a yellow center and pink and brown. Retussus is very beautiful, having a great range of color and markings. Pinatusus has a very small bloom compared with the other varieties.

The schizanthus should be more largely grown as it is very valuable as a cut flower, lasting two or three weeks in water, and is especially adapted for mixing with other flowers.

The outlook for more flowers during the present season is brighter than for several years. Everyone has been raising vegetables, eliminating flowers from their seed order, but this year few gardens will be complete without the flower section.

The next meeting of the society will be held on Friday, April 25th, when the matter of a flower show will be brought up for discussion.

ALFRED DIXON, Secy.

Obituary

George Carlton Worthen.

George Carlton Worthen of Lexington, widely known as an agricultural expert and as an experimenter in economic botany, under Professor Oakes Ames in the Bussey Institute at Harvard, died suddenly on Thursday in North Easton. He was born in Cambridge on Aug. 2, 1871, and educated in the public schools of Cambridge and Lexington. The greater part of his life had been devoted to work in connection with the Department of Agriculture at Washington. He had done experimental work for this department in various parts of the United States, and was at an Indian reservation school in Montana for a long time. He also did experimental work near the city of Washington and in California, Florida and Maryland, and for private parties in Costa Rica. Besides his mother he leaves a brother and a sister.

Henry D. Rohrer.

Henry D. Rohrer of Lancaster, Pa., died, Monday morning, April 7th. About four years ago Mr. Rohrer was stricken with apoplexy from which he never fully recovered, but during all of that time until the last few weeks he was able to be about and enjoyed comparative health. He was in his seventy-third year, and had been in the florist business for a period of fifty years. He was a life member of the Society of American Florists and missed very few of the annual meetings of this body. He was a charter member of the Lancaster County Florists' Association and took an active part in all of its proceedings. As a florist he stood in the front ranks of the growers and was always willing to give advice and of his knowledge to others and there were few in the trade more looked up to or beloved. He is survived by his wife, Mrs. Mary Rohrer, two sons who have been associated with him in the business, Harry K. and Abram K. also one daughter, Ella K., wife of Joseph K. Lehman. The business will probably be continued under the management of the two sons.

The florist Club attended the funeral almost as a body and sent a beautiful floral emblem.

ALBERT M. HERR.

Newark, O.—Mrs. Albert S. Showman has purchased the greenhouses and business of J.W. Dicken.

Best Young Trees

Little Tree Farms, Framingham, Mass. Millions of Evergreen and Deciduous trees, all grades and sizes.

Write for Price List

Firs, Junipers, Arbor-vitae, Pines, Spruces, Maples, Ash, Oaks, Lindens, Elms, etc.



American Forestry Company

15 Beacon St., Boston, Mass.



IBOLIUM

The New Hybrid

HARDY PRIVET

(L. Iboia x Oval-folium)

TO BE SENT OUT IN THE FALL OF 1919. Introducers of Box-Barberry.

Elm City Nursery Co., WOODMONT NURSERIES, Inc., New Haven, Ct.

Julius Roehrs Company PLANTSMEN

Orchids, Conservatory Plants, Novelties, Begonias, Garden Perennials

Finest Stock in America for Trade or Private Requirements
RUTHERFORD, NEW JERSEY

CHICAGO NOTES.

The conservation of wild flowers is again being agitated by the various women's clubs of the city and appropriate speeches are being made now, when the season is at hand, when most damage is done.

Notwithstanding the mild winter spring is not particularly early here, the first crocuses, daffodils and hyacinths having just made their appearance in the sunniest parts of the gardens. No shrubbery is yet in bloom but here and there a forsythia is showing color.

By order of Gov. Lowden, Arbor Day falls on April 18, or Good Friday. It has long been the custom to close the Chicago schools on that day, so regular Arbor Day exercises were held on the 17th. The small trees for planting have made a price record of one cent in past years but is not being pushed as much as usual this year.

The local papers have been giving considerable publicity to the troubles of the assistant gardeners on the large private estates of Lake Forest. It appears that they desired an increase in wages, which not being consented to, resulted in vacancies which were filled by convalescent soldiers from Fort Sheridan, which is close by. The permanent outcome is not yet decided upon but several large places are involved.

NURSERY STOCK

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List

W. & T. SMITH COMPANY, Geneva, N. Y.

We are subscribers to the Nurserymen's Fund for Market Development

HILL'S EVERGREENS

BEST FOR OVER HALF A CENTURY
Small, medium and large sizes supplied
Price list now ready

THE D. HILL NURSERY CO.

Evergreen Specialists. Largest Growers in America

BOX 415, DUNDEE, ILL.

H. B. Dorner, professor of horticulture at the University of Illinois, Urbana, is conducting a party of students through the wholesale market and large greenhouse plants about Chicago seeing the Easter stock at its best stage. They also attended the meeting of the Chicago Florists' Club.

The trees planted this year on Arbor Day will be dedicated to the memory of the soldiers who gave up their lives in the world's war.

NEW FLOWER STORES.

Portland, Ore.—S. G. Lubliner, 248 Morrison St.

Portland, Ore. — Lubliner, Florist, Morrison St., branch store.

Charleston, Ill. — Ingleside Flower Shop, succeeding S. W. McClelland.

VIBURNUM PLICATUM
Also Berberis Thunbergii, Hydrangea paniculata, Weigela, Spiraea, etc.
Ask for complete list of OAK BRAND SHRUBS.

The CONARD & JONES CO. WEST GROVE PENN., U.S.A.

Robert Pyle, Pres. Antoine Wintner, Vice-Pres.
We are subscribers to the Nurserymen's Fund for Market Development

GLADIOLI

New Trade List Ready

JOHN LEWIS CHILDS, Inc.

Flowerfield, L. I., N.Y.

ADVICE FOR BEGINNERS.

A paper read by Edward Williams, of Grand Island, Neb., at the annual meeting of the Nebraska State Florists' Society.

The record of the largest greenhouse in the country today includes the fact that it was started on a small scale. Nearly all within hearing of my voice—I dare say all of you—started with a few dollars, a great deal of nerve and that determined "I will"; and here you are today. Of course, some of us have not succeeded as well as others we know, but we do know one thing, and that is this: That anyone who thinks it is a snap to embark on a small scale in the flower business has another guess coming.

Conditions today are different from what they were twenty-five years ago, when most of us started. The florist—I should say, the hothouse man—was small fry in a community. The neighbors were always ill-humored with him. If he did not smoke them out with his tobacco stems about twice a week, he would wake them up in the "wee sma' hours" of a zero morning to ask them for the loan of their largest lamp; and if they had two, he would take both of them, for "that old flue is not drawing well." Of course, being up all night was all right; it had to be. Of course, the watering and firing had to be looked after the next day, besides the hitching up of old Dobbin to deliver that 25-cent bouquet to Mrs. Maloney, for she was going to entertain the Ladies' Aid that day. And when he got back, he would find that someone had been in and ordered a \$2 wreath. Naturally, he missed his dinner, but that would be all right, too.

When evening comes our florist covers the frames and is ready to eat that evening meal. Oh, boy! How he will shovel that food down! He sits down and proceeds to get busy, when there comes a rap at the door.

A Bearer of Bad News

"Is Mr. Jones in? Well, I thought I would stop to let you know that some boys have broken out several glasses in your roof."

The caller is thanked. Out goes the florist, grabbing up all the gunny sacks he can carry. After looking after that operation, he returns to the

good wife, who is warming over that plate of victuals he left half devoured. Great life!

The years roll along. Johnnie is growing to be a big boy and he does nearly all the delivering. The wife has taken hold of the cut flower end of the business; a college boy takes care of the night firing for his board and room. Things are getting a little easier for father. The silver clouds are just breaking through; "dad" does not get up nights any more.

Later: The florist has a steady fireman. There is no more delivering, for he has a delivery boy. No, mother does not work any more; an experienced salesman has taken her place. Father does not pull that smudge can around; he does not have to cover up the coldframes—the foreman looks after all that. Johnnie takes care of the business end. What does father do? Nothing. Oh! What a glorious feeling.

Now, you all know that these few remarks of mine describe the steps that most of us have taken in climbing up the ladder of success. Some of us have come through with a few less scars than others. Some have fallen by the wayside. I will close this rambling of mine by stating that I know and you know of men who have made more money, lived better, and have not worked every member of the household to make it, as the small beginner in the floral business has. All of us are entitled to all we have or will make. And I think that when we get beyond the river, the small beginner will be in the front row.

Practical Suggestions

Getting down to the subject of how to make a small greenhouse pay, I will give you a few facts as to what to expect when you start in a small way. To begin with, these are days of specialists. My advice to a beginner would be to grow one thing and grow it well. He should start on carnations sweet peas and bedding plants, filling in at different seasons by following up with a summer crop of early tomatoes, cucumbers, asters, etc., in that way working his capital the year around. Of course, the coldframes can be used to good advantage at all times. The cut from a small place would be best disposed of to the retail stores. I am referring to a beginner in a city where the competition is keen at all times. There a man must know where he is. It is better to be safe than sorry. Always hold up your standard for a square deal. Know what it costs you to grow your stock and get a price that will leave you a profit on your investment. Cheapness never

gets one anywhere. Study your lines, so as to be prepared to make suggestions along different lines, such as laying out a lawn, planting shrubbery, and where to make flower beds so that they will do best. Get your customers to understand that you are working for their interest. Last, but not least, get paid for it, for the upkeep in the flower business, I dare say, is above the average; besides, there is the risk in handling perishable goods.

If you are a small beginner in a small town, absolutely different methods have to be used, for in that case the florist caters to his own retail trade and has to govern his plantings accordingly. A mixed line that would enable him to fill almost any order for any occasion, and a connection that would make it possible for him to get goods to fill his orders on short notice, are desirable. The one big mistake many have made is that after getting started, they want to increase too fast, thereby getting into debt, paying big interest and overstocking. Of course, I realize that "nothing ventured, nothing gained;" but there is a limit, and one should know where that limit is.

Florists Born, Not Made

A florist is not made. A man must have a love for the profession to stick to it. He has to be able to stand setbacks; he has, at all times, to hold himself in readiness for any emergency, for there is much grief attached to all business.

Treat your employees with respect and give them to understand that some responsibility rests on them. If treated that way, they will take more interest in their work.

I could continue along this line, but I have stated the facts which, if adhered to, will bear fruit. I wish, before concluding, to say that since we last met things in general look brighter. I believe that this country will enjoy real prosperity for some time to come and it will be best for us to be prepared for our share of it.

The last few years have been extremely trying for us florists, but we have weathered the storm. The florists of the United States have done their share. All have done their utmost to back up the government. It is gratifying to me to see how our profession has come to the front. These meetings bring us together, we exchange thoughts and get closer together. The work of the committees of the S. A. F. during the last two years has been difficult. I wish to say that the florists of Nebraska should be affiliated with the S. A. F.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, F. W. Boigian, Washington, D. C.; First Vice-President, Wm. G. Scarlett, Baltimore, Md.; Second Vice-President, David Burpee, Philadelphia, Pa.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

Seed Trade with European Countries.

It has been recognized for years that Hamburg, Germany, was the seed marketing center of Europe. It not only handled those seeds which were produced within German borders for export to foreign countries, but gathered in the surplus production of many other European countries for export. This was particularly true with reference to the seed surpluses of France and Russia. The larger part of the French seed which reached the United States, except vegetable seeds grown under contract, came through Hamburg or other seed marketing points of Germany. Hamburg not only served as a distribution point for European seeds, but also served as a point from which seeds produced in America and elsewhere were distributed throughout Europe. Hamburg was not so important in its relation to distribution from the United States to the United Kingdom, or vice versa, but it did handle a large portion of this trade moving in both directions.

The question today is what readjustment will be made in the trade relations between the United States and the European Allied countries and between the United States and the Central Powers. At present it seems that the wholesale seed concerns of London, Edinburgh, Glasgow, and Belfast are bidding for Continental trade, with the advantage, naturally, with London as the important seed marketing center. There seems to be no logical reason for not establishing and maintaining direct trade relations in the distribution of seeds between the United States and France. It seems to be merely a matter of the American seed concerns and the French seed concerns getting together on a business basis and establishing confidential business relations between each other. An important factor which enters into the matter is the question of variety

names and grades or standards on which the French people heretofore have purchased American-grown seeds through German commercial agencies. Referring particularly to the matter of seed peas, the French appear not to be familiar with the variety names used by American seedsmen in offering their output to France. They are more familiar with the names which have been attached to American varieties and stocks by German seedsmen in their trade with France. It would be necessary, in this particular commodity, to determine the German synonyms for American-grown varieties and to indicate these so that the French dealers would recognize them under the names by which they had formerly purchased them. A special effort should be made by American seed concerns, either individually or through the national seed associations, to establish direct trade relations with French seed concerns. It would be better both for American and French concerns to deal in this way. With the establishment of an American merchant marine, there will undoubtedly be ample shipping facilities between the two countries so that charges for transportation will at least be as low as, and probably considerably lower, by direct routing than be re-routing through some other country. It is simply a matter of establishing the most economic and efficient distribution possible.

In Italy there seem to be very few, if any, American seeds that they are in need of. They seem to be well supplied at the present time with both field and vegetable seeds, and their normal production of practically all of these items probably will normally take care of their home requirements in the future. They are particularly interested in sugar-beet seed, which they are unable to obtain at the present time and which cannot be furnished them by the United States, but they hope to be able to establish areas of profitable sugar-beet seed production within their own borders.

NEWS NOTES.

Mount Clemens, Mich.—K. Velthuys and P. Vos, well-known bulb specialists of Holland, have purchased sixty acres of land here and will specialize in gladioli bulbs. Their place will be known as Maple Park Farm.

Oak Park, Ill.—The greenhouses of the C. Pfund Company have been purchased by George Jung, who will do business under the name of the Home Florist.

MICHELL'S PRIMULA SEED

PRIMULA CHINENSIS (Chinese Primrose)

	1/2 tr. pkt.	tr. pkt.
Michell's Prize Mixture. An even blending of all colors.	\$0.60	\$1.00
Alba Magnifica. White.	.60	1.00
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Duchess. White, with zone of rosy carmine, yellow eye.	.60	1.00
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Kermesina Splendens. Crimson.	.60	1.00
Rosy Morn. Pink.	.60	1.00

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A great improvement over the old type, flowers much larger tr. pkt.
Lilacina. Pale lilac. \$0.50
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Rosea. Pink. .50
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Also all other Seasonable Seeds, Bulbs and supplies. SEND FOR WHOLESALE CATALOG.

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518 Market St., PHILADELPHIA, PA.

GREENHOUSES BUILDING OR CON- TEMPLATED.

Iron Mountain, Mich.—Odin F. Es-kill, house 28 x 100.

Minneapolis, Minn.—E. H. Mazey, 3003 Ewing Ave., one house.

Providence, R. I.—Quidnick Greenhouses, additions and alterations.

Brandywine Summit, Pa.—E. A. Harvey & Sons, rebuilding.

STATEMENT OF OWNERSHIP, MANAGEMENT, ETC., OF HORTICULTURE.

As Required by the Act of Congress
Aug. 24, 1912.

Publisher—Horticulture Publishing Co., Boston. Editor and Business Manager—William W. Castle. List of stockholders holding one per cent. or more of total amount of stock—W. W. Castle, N. F. Perkins, Estate of Wm. J. Stewart, Ralph W. Messenger, J. K. M. L. Farquhar, P. Welch, Estate of David Welch of Boston, Mass.; Estate of F. R. Mathison, Waltham, Mass.; Thos. Young, Jr., W. F. Sheridan, F. H. Traendly, Chas. Schenck, John I. Raynor, New York City; Estate of W. F. Kasting, Buffalo, N. Y.; A. S. Burns, Elmhurst, N. Y.; Wm. S. Person, S. S. Pennock, Philadelphia, Pa.; John Burton, Chestnut Hill, Philadelphia, Pa.; Estate of Carl Jurgens, Newport, R. I.; Philip Breitmeyer, Detroit, Mich.; Fred Lautenschlager, Chicago, Ill. Bondholders, mortgagees and other security holders—none.

Sworn to and subscribed before Notary Public by WM. W. CASTLE,
Business Manager.

Boston, April, 1919.

SEEDS AND BULBS
Boddington's
128 Chambers St., N. Y. City

BETTER FRUIT FOR NEW ENGLAND.

(Lecture by M. G. Kains before the Massachusetts Horticultural Society.)

Much praise was given to the "mere amateurs" among fruit growers, without in the least detracting from what the scientists, agricultural colleges and state and national departments of agriculture have done for the improvement of fruits, by Professor M. G. Kains of Columbia University, New York city, who last Saturday afternoon addressed the Massachusetts Horticultural Society. He spoke of his boyhood days on the farm, when toothsome apples and other fruits were raised for the use of the family and guests, and when the standards were kept high as a matter of pride and satisfaction.

"While the past five, and especially the past three decades," said Professor Kains, "have seen more remarkable improvements in horticultural practices than did the previous five—for instance, the development of modern tillage, fertilizing, cover cropping, spraying and rational pruning—which have made the fruit-growing industries of today highly specialized arts, perhaps the most significant development of all is the increased and steadily increasing public demand for fruit varieties of high quality. For this growth, particularly so far as apples are concerned, Oregon, Washington, Colorado and other western orchardists doubtless deserve considerable credit, first because they boldly nailed their colors to high standards of excellence, both as to variety and to character of specimen, and second because they deliberately set about the education of the public with respect to such standards.

"One of the most pleasing customs of the old days, one that deserves to be revived today, owed its charm to the choice fruit grown in the family plantation. When visitors dropped in for the afternoon or the evening the proper thing was to have the company enjoy some home-grown fruit before departing. This was not served in the modern sense now too frequently employed to indicate that the social session is at an end, but in the whole-souled spirit of hospitality in the extending of which both host and hostess could take a keener pleasure in serving a home-grown product and feeling that the favorable comments upon it were more genuine than is possible when purchased provender is provided.

"What would have happened if the Ben Davis apple, Kieffer pear, Elberta peach or Lombard plum had been used instead of the choice varieties? Might

not the guests have felt that as direct a hint was being given them as when in baronial times the cold shoulder of mutton was trotted out to apprise the guests that they had outlasted their welcome? But who would have planted or grown such inferior fruits with bouncing intent? Would it not have wasted valuable land and time and also indicated a lack of resourcefulness on the part of host and hostess?

Discouraging a Good Customer.

"Though the Ben Davis apple and Elberta peach must bear much responsibility for curbing public appetites for apples and peaches respectively, it seems safe to declare that no one fruit variety has played such havoc with public taste as has the Kieffer pear. The train-loads of this whited sepulchre of a fruit, that for the past twenty years or more have flooded the large city markets, have led the public to believe that pears in general are inferior fruits, fit only for canning, if that. Even the Bartlett has had its skirts soiled by the commercialism that prompts California growers to gather it too green and ship it to eastern markets, where its consequently flat flavor belies its fine color and thus begins what the Kieffer finishes, the suppression of the public appetite. Thus the rising generation has had little chance to learn the truth that the pear is one of our nicest, most luscious and delectable of fruits.

"It seems necessary to criticize adversely much of the present-day literature and many of the specialists of the agricultural colleges and experiment stations. The majority of the writings on fruit-growing within the past twenty-five or thirty years have too strongly emphasized commercial phases and given too little heed to the stigmatized 'amateur' features of fruit-growing as if these were of an inferior instead of a potentially superior order. Amateurs are frequently connoisseurs. The writers seem to have the dollar so close to their eyes that they see nothing else. As a matter of fact, the great authorities on fruit growing—Coxe, Prince, Bary, Thomas, Warder, Brinkle, Lyon, the two Downings and the galaxy of New Englanders—Kenrick, Wilder, Hovey and the Mannings, to name only a few—were all amateurs, yet what does not the American public and especially the fruit grower owe them? They made fruit-growing popular, not only in their day but for ours.

"Let me hasten to say my audience is mistaken if it has concluded from any of my remarks that I advocate a return to the hit or miss methods of former days. I most certainly do not.

I am a firm advocate of every method that makes for better fruit and more of it. What I have striven to emphasize is the importance of replacing the now largely decrepit fruit plantations with new ones of the choicest varieties to be handled according to the best modern methods."

We should like to publish in full this instructive lecture but our space is limited.

ST. LOUIS.

Florists will be invited to the Growers' dance to be held at W. R. Rowe's new place the latter part of the month.

The Club meeting at Wendler Wholesale Floral Co. warehouse was held Thursday, 10th, pressure of business kept President Hummert and other officers and members from the Club. Fred Ammann of Edwardsville, Ill., displayed pictures of publicity advertisements

Visitors' Register

Boston—Clarence L. Linz, Washington, D. C.

Rochester—G. G. Slecker, Chicago; J. J. Karins, rep. Dreers, Phila.

Philadelphia—Wm. E. Seidewitz, Baltimore, Md.; M. Koster, Boskoop, Holland; Wm. Turpin, Norfolk, Va.; Fred A. Carey, Kennett Sq., Penna.

Chicago—H. B. Dorner, Prof. of Horticulture University of Illinois, Urbana, Ill.; Miss Hayden, with Samuel Murray, Kansas City, Mo.; Henry Kusick, Kansas City, Mo.



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STANDARD
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Save your plants and trees. Just the thing for greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrips, Red Spider, Black and Green Fly, Mites, Ants, etc., without injury to plants and without odor. Used according to direction, our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

½ Pint, 30c.; Pint, 50c.; Quart, 90c.; ½ Gallon, \$1.50; Gallon, \$2.50; 5 Gallon Can, \$10.90; 10 Gallon Can, \$20.00.

Directions on package.

LEMON OIL COMPANY
Dept. S. 428 W. Lexington St., Baltimore, Md.

LOCAL AND GENERAL NEWS

ROCHESTER.

George DeMuth, who has been with the U. S. Army, has returned to this city and taken his old position with George B. Hart. Joe Werdeen is with Geo. Boucher for the Easter Rush. Charles Gorr will help out during the busy season at the Rochester Floral Co.

At the florist Club meeting, April 11, Geo. T. Boucher was elected president and Geo. Keller vice-president. Harry A. Barnard gave a talk on nursery conditions in England.

CHICAGO.

W. M. Schluetter has resigned as secretary of The Foley Greenhouse Mfg. Co., to take effect April 30th, and on that date will sever all connections with the firm. For the past four years he has had charge of the drafting, estimating, order and construction departments, and during that time has made quite a few friends amongst the greenhouse owners. He has not as yet made any definite arrangements for the future.

The floral decorations for the opening of spring at the Marshall Field store have all turned to gold with the ushering in of the Victory Loan campaign. The flags of the United States, England, Belgium, France and Italy are mingled with the exquisite drapings of victory red, bordered with broad wreathings of gold and drape the main aisle, which is in reality a thoroughfare of nations. The hanging baskets high overhead have the same gold leaves with green and on the large pedestals stand the bronze figures of the soldiers of the five nations holding their respective flags.

PHILADELPHIA.

Wm. Robertson, for twenty-three years superintendent on the John W. Pepper estate at Jenkintown, leaves there on the 22nd inst. He has not quite decided yet as to his new affiliations but the probabilities are that he will go into business for himself—with his two sons, who have been brought up and educated along horticultural lines both practically and in college. There is a good opening for just such experience and training at the present time and we look forward to interesting developments.

BOSTON.

At the monthly meeting of the Gardeners' & Florists' Club on Tuesday evening, April 15th, Geo. N. Smith of Wellesley gave a very interesting paper on Community Betterment.

The windows of Welch Bros. Co. were a riot of color the past week, with choice specimens of forced rhododendrons, rambler roses, bougainvilleas and hydrangeas.

THE BUYER THAT WAS A LITTLE TOO SHREWD.

Here is a case which will interest everybody:

Philadelphia, Pa.

On October 26, 1918, we got an order for a carload of goods to be shipped from California, from a Philadelphia buyer. We made out a regular form of printed contract containing the usual arbitration clause. It provided for shipment before November 5th. At that time you had to get a permit from the Railroad Board to bring things in, and this permit could only be gotten by the consignee, and then had to be put in the hands of the shipper before the goods could start to their destination.

After this contract was signed, the buyer applied for a permit and got it on November 4th, which was the day before shipment was to be made. Instead of cancelling the contract because shipment could not be made in time, he turns it over to us to be sent to California, evidently intending shipment to be made. The permit got out there on November 8th, and the car was loaded and started East on November 14th.

The goods were sold sight draft, bill of lading attached, and the draft came on here and was presented to the buyer on November 28th. At the time the market had gone off about 75 cents a cwt., and he refused payment, stating as his reason that shipment had not been made before November 5th, as provided by the contract. We were obliged to resell the car at a loss of about \$1,000. Have we any case against the buyer of these goods? It is of course true that shipment was not made before November 5th. Do not use our name.

P. S.—He refused to arbitrate—can he be compelled?

One can see the shrewd mind of this buyer working expertly when he made this contract. "I will put in a date of shipment that they probably won't be able to comply with. If the market isn't off when the goods come in, of course I'll take them. If it is off, I'll reject on the ground that shipment wasn't made in time." It is an old trick, and variations upon it have been worked very many times. Often it is successful, but in this case I am clear that it will not be successful, for the buyer, when he handed over the permit at a time when he must have known it couldn't be sent to California and shipment made in the brief time remaining, waived his right to reject the goods on that ground.

Just a word about the arbitration clause in contracts of sale. It is a clause binding both parties, if dispute arises over quality or shipment, to settle it by arbitration instead of in court. The clause is worthless; either party can refuse to be bound by it provided he declares that intention before arbitrators are appointed. The arbitration clause is a good thing to have in selling contracts, but carrying it out depends wholly on the will of the

parties, for they are no more bound by it after they sign it than before.

To go back to the question of waiver, let me explain that. A man who has a right upon which ordinarily he can stand, waives it, or loses it, if he lets the psychological moment pass without using it. In every business transaction there is a time to speak and act in a certain way. If the time goes by without the word, or the act, it is too late; the right is waived.

So with this buyer. When his permit came through on November 4th, it was perfectly obvious that shipment could not be made before November 5th, because that meant that the seller only had until the last minute of November 4th. The buyer could then have cancelled the contract on the ground that it was impossible for the seller to comply with the clause as to time of shipment. Instead of that, he handed over the permit for transmission to California, at a time when he knew shipment could not be made before November 5th. In my judgment that waived his right to insist on shipment before November 5th, and the seller had a reasonable time after that in which to ship. I think you can recover all your loss from this buyer.

The law governing cases like this is very well settled. A man must not sleep on his rights, but must exercise them at the proper time. I remember a case in which an order blank contained these words: "The foregoing contract is subject to approval of an executive officer of the party of the first part. It shall not be binding upon the party of the first part until so approved, and if this proposal or contract is not ratified by party of the first part within five days, then this proposal of the party of the second part and this contract shall be null and void."

A buyer signed the blank and the order was sent in, but the seller didn't send any notice of approval. The goods covered by the order, however, were shipped. The seller tried to avoid delivering them, however, and the question arose, was there a binding contract of sale, when no notice of approval or disapproval had been given and when the contract itself said that without such notice it would be void. The court said the order was good without the notice of approval. "If the goods were shipped, the buyer had the right to consider that an acceptance of the proposed contract or an approval of the same in the terms as submitted. If the buyer submitted a proposal to the seller for approval, and if the seller shipped the goods called for without notice to the buyer of approval or disapproval, it would in law amount to an acceptance of the proposal in the terms submitted."

In other words, when the seller shipped the goods without formally approving the contract, he waived his right to stand on that because he didn't exercise it at the proper time.

(Copyright, March, 1919, by Elton J. Buckley.)

DURING RECESS.

Florists' Club of Washington.

Tabloid speeches featured the Victory Banquet of the Florists' Club of Washington, D. C., held at the Cochran Hotel, April 9, the first social event of the club since the commencement of the war and attended by more than one hundred people. Pres. Z. D. Blackistone obtained request to make a fifty-word address of welcome. Richard Vincent, Jr., of White Marsh, Md., made a very brief speech. Fred H. Kramer obtained the floor at various times to briefly introduce the entertainers. The record was made by the retiring secretary, Clarence L. Linz, who found himself almost tongue tied and able only to say about twenty-five words thanking the members of the club for the handsome cut glass water set presented to him upon his completing a four-year term of service as secretary.

The newspapers next day had a lot to say about the florists' speechless banquet, the sending of the thousands of roses, spring flowers and fruit blossoms to the nearby hospitals and the gathering of a thousand fresh roses in the greenhouses in the morning to be sent to the sick and wounded soldiers at Walter Reed Hospital, the Victory corsages presented to the ladies, consisting of white and light purple sweet peas and red roses set in old fashioned bouquet holders and tied with flag ribbon; and the installation of officers.

Best wishes for the quick recovery of William F. Gude were voiced during the evening.

The decorators, from the stores of Z. D. Blackistone and George C. Shaffer used enormous quantities of roses, carnations, spring flowers and fruit blossoms, snapdragon and sweet peas in a most artistic manner. George E. Anderson, Fred H. Kramer and Edward S. Schmid, assisted in making arrangements for the affair. George C. Shaffer was chairman of the banquet committee. Z. D. Blackistone headed the committee on decorations; Otto Bauer looked after tickets, and Clarence L. Linz took care of the publicity.

There were songs and music all during the dinner. James H. Young entertained the guests with songs, while Mrs. Young played the piano. Clara Naecker made love in song to William Marche, who greatly enjoyed the role of Romeo to the fair singer. Charles A. Stevens and Milton J. Filius dressed as farmers and poking fun at their friends in a very inoffensive way, presented an original sketch, assisted by Clara Naecker. Herbert M. Sauber, of the Blackistone store, presented a vaudeville sketch.

Dancing followed the entertainment.

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Brantford, Ont.—The Rosery, F. C.
Ginn, prop.

New York, N. Y.—G. P. Josephson,
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Cleveland, O.—Rustic-Made Ware
Co., 207 High Ave. (florists' supplies).

Aledo, Ill.—C. C. Kurzdorfer, flowers
and seeds.

Detroit, Mich.—Homer Townsend,
succeeding Springman Floral Co.

Kansas City, Mo.—Arthur Newell,
removing to 1122 Grand Ave.

Kansas City, Kan.—Mrs. J. A. Serv-
ice.

ST. LOUIS, MO.

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4326-28 Olive St.

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OPHELIA DOUBLE WHITE KILLARNEY

2½-inch pots, \$90.00 per 1000.. Fine stock, cuttings made from two and three eye cuttings.

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CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

Wired Toothpicks

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10,000...\$2.25 50,000...\$9.75 Sample free.
For sale by dealers.

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From Henry M. Robinson & Co.

For Safety Place Your Orders With Us

HENRY M. ROBINSON & CO.

2 Winthrop Square and 32 Otis Street, BOSTON, MASS.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Apr. 18		ST. LOUIS Apr. 14		PHILA. Apr. 14	
Roses						
Am Beauty, Special	25.00	to 50.00	30.00	to 60.00	15.00	to 75.00
" " Fancy and Extra	12.00	to 20.00	25.00	to 40.00	10.00	to 45.00
" " No. 1 and culls	8.00	to 10.00	5.00	to 15.00	10.00	to 20.00
Russell, Hadley	6.00	to 15.00	3.00	to 25.00	15.00	to 40.00
Killarney, Ward	2.00	to 8.00	3.00	to 12.00	6.00	to 15.00
Radiance, Taft, Key	2.00	to 8.00	3.00	to 8.00	6.00	to 15.00
Ophelia, Sunburst	4.00	to 10.00	3.00	to 12.00	6.00	to 20.00
Carnations	6.00	to 12.00	3.00	to 5.00	8.00	to 10.00
Cattleyas	100.00	to 150.00	60.00	to 75.00	100.00	to 150.00
Lilies, Longiflorum	25.00	to 35.00	15.00	to 25.00	25.00	to 35.00
Lilies, Speciosum	8.00	to 20.00	.....	.....	.....	.....
Callas	25.00	to 35.00	15.00	to 20.00	25.00	to 35.00
Iris	8.00	to 10.00	8.00	to 10.00	10.00	to 20.00
Lily of the Valley	8.00	to 10.00	8.00	to 10.00	.....	.....
Snapeadragon	8.00	to 10.00	3.00	to 15.00	6.00	to 20.00
Pansies	3.00	to 4.00	.....	.....	8.00	to 10.00
Daffodils	2.00	to 3.00	2.00	to 6.00	6.00	to 8.00
Calendula	2.00	to 4.00	2.00	to 4.00	4.00	to 6.00
Stocks	.....	.....	5.00	to 8.00	.....	.....
Wallflowers	.....	.....	.....	.....	.....	.....
Mignonette	2.00	to 6.00	3.00	to 4.00	4.00	to 6.00
Sweet Peas	1.00	to 3.00	.30	to .75	2.00	to 4.00
Violets	2.00	to 4.00	.30	to 1.00	1.00	to 1.50
Marguerites	3.00	to 5.00	1.50	to 2.00	.75	to 1.50
Gardenias	25.00	to 35.00	.....	.....	50.00	to 75.00
Adiantum	1.00	to 1.50	1.00	to 1.50	1.00	to 2.00
Gladioli	.....	.....	12.00	to 40.00	.....	.....
Asparagus Plumosus, & Spreng. (100 Bchs.)	35.00	to 50.00	35.00	to 100.00	50.00	to 75.00

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

Wholesale Growers of Cut Flowers ROSES, CARNATIONS

AND ALL OTHER SEASONABLE STOCK

Shipping orders have most careful attention always

WILLIAM F. KASTING Co. Wholesale Florists

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WEED KILLER

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS, TENNIS COURTS, DRIVEWAYS, ETC.

This fluid destroys weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

PINO-LYPTOL CHEMICAL CO., 507-509 W. 19th St., New York

CORRESPONDENCE SOLICITED.

FLORISTS' CLUB OF WASHINGTON, D. C.

Z. D. Blackistone took office for a second term at the April meeting of the Florists' Club of Washington, D. C., held last week at the store of the S. S. Pennock Company. William F. Gude will again serve as treasurer. The new officers are George E. Anderson, vice-president, and E. P. Rodman, secretary.

The following florists were elected to membership at this meeting: J. Harper Hetherington, Louis A. Hoover, George A. Comley, John J. Bickings, R. J. Lacey and J. Dan Blackistone. Applications for membership were also received from Elmer C. Mayberry, Adolph E. Gude (son of Adolph of Gude Bros.), C. Henry Gottenkenny, W. T. Westcott, George N. Prokos, and Hardy Pritchard.

President Blackistone appointed the following committee: House—George E. Anderson chairman, J. Harper Hetherington and Edward S. Schmid. Exhibition—Otto Bauer chairman, J. Harper Hetherington and George H. Cooke. Membership—R. Lloyd Jenkins chairman, Otto Bauer and Henry Witt. Entertainment—George C. Shaffer chairman, Fred H. Kramer, Harry B. Lewis, Louis E. Hoover and Walter F. Bottger. The membership of these committees will be increased and additional committees named at a future meeting of the club, also special committees to arrange for the fall flower show. It was practically decided to hold a Flower Display Week in Washington early in the fall. The holding of a show had been discussed for several months, it being thought desirable to take such a step to further boom the business for next year. However, the automobile dealers of Washington proved that the turning of their individual stores into show places for Auto Week was a more successful way of handling such a proposition, and the florists will pattern their show accordingly.

Each of the city's retailers and the growers and nurserymen of the District of Columbia, nearby Maryland points and across the river in Virginia will be invited to contribute towards a

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	CINCINNATI Apr. 14		CHICAGO Apr. 14		BUFFALO Apr. 14		PITTSBURG Apr. 14	
Roses								
Am. Beauty, Special.....	50.00	to 75.00	50.00	to 60.00	60.00	to 75.00	60.00	to 100.00
" " Fancy and Extra.....	30.00	to 40.00	35.00	to 40.00	40.00	to 50.00	50.00	to 75.00
" " No. 1 and culls.....	12.00	to 25.00	12.00	to 25.00	8.00	to 25.00	.....	to 10.00
Russell, Hadley.....	10.00	to 35.00	8.00	to 40.00	10.00	to 25.00	5.00	to 40.00
Killarney, Ward.....	10.00	to 30.00	4.00	to 20.00	6.00	to 15.00	8.00	to 20.00
Radiance, Taft, Key.....	10.00	to 35.00	5.00	to 25.00	10.00	to 20.00	8.00	to 20.00
Ophelia, Sunburst.....	10.00	to 35.00	6.00	to 20.00	10.00	to 20.00	10.00	to 25.00
Carnations	6.00	to 8.00	5.00	to 10.00	5.00	to 8.00	8.00	to 10.00
Cattleyas.....	60.00	to 75.00	50.00	to 100.00	75.00	to 85.00	100.00	to 125.00
Lilies, Longiflorum.....	25.00	to 35.00	25.00	to 35.00	20.00	to 25.00	15.00	to 25.00
Lilies, Speciosum.....	.....	to .....	.....	to .....	.....	to .....	.....	to 35.00
Callas.....	25.00	to 30.00	25.00	to 35.00	25.00	to 35.00	12.00	to 20.00
Iris.....	15.00	to 20.00	2.00	to 4.00	12.00	to 15.00	.....	to
Lily of the Valley.....	4.00	to 8.00	5.00	to 6.00	10.00	to 12.00	.....	to
Snapdragon.....	8.00	to 15.00	12.00	to 25.00	8.00	to 15.00	.....	to
Panies.....	1.00	to 2.00	1.00	to 2.00	.50	to 1.00	.....	to
Daffodils.....	3.00	to 5.00	3.00	to 6.00	6.00	to 8.00	4.00	to 6.00
Calendula.....	3.00	to 5.00	4.00	to 6.00	2.00	to 6.00	.35	to .50
Stocks.....	6.00	to 8.00	.....	to	3.00	to 5.00	.....	to
Wallflowers.....	.....	to	1.00	to 2.00	.....	to .....	.....	to
Mignonette.....	.....	to 8.00	5.00	to 8.00	3.00	to 8.00	4.00	to 6.00
Sweet Peas.....	1.00	to 3.00	3.00	to 5.00	1.00	to 4.00	1.00	to 2.50
Violets.....	.....	to 2.00	1.00	to 1.50	1.00	to 1.50	1.50	to 2.00
Marguerites.....	2.00	to 3.00	.....	to 1.00	1.00	to 3.00	3.00	to 4.00
Gardenias.....	.....	to .....	.....	to	25.00	to 50.00	.....	to
Adiantum.....	.....	to 1.00	1.00	to 1.50	.....	to 8.00	.....	to 2.00
Gladioli.....	.....	to	10.00	to 25.00	10.00	to 12.00	.....	to
Asparagus Plu. & Spren. (100 Bhs.)	25.00	to 50.00	50.00	to 100.00	35.00	to 50.00	25.00	to 50.00

fund to be used in advertising the florist business locally. Large advertisements will be placed in each of the four Washington daily papers and placards will be put out in various parts of the city. Suitable reading matter for insertion in the newspapers will also be prepared. The plan is to select some week in the early fall for Flower Display Week and to concentrate all efforts upon it. All of the stores would be kept open until ten o'clock each evening, with all of the clerks on duty to entertain visitors, and a general invitation extended to the public to "take a look" at each store's offerings. It would be up to each of the retailers to make his store most attractive, make up decorations and display cut flowers, and do every thing possible to increase the love of and desire for flowers to the end that his own individual business will be increased.

CLUB AND SOCIETY NOTES.

At a meeting of the Chestnut Hill Garden Club, Thursday evening of last week, E. I. Farrington gave an illustrated lecture on the Arnold Arboretum, the World's Greatest Museum of Living Trees and Shrubs. The same lecture is to be given before the Newport Horticultural Society on April 22.

Flower Market Reports

During the past
ROCHESTER week trade has been
 very quiet and stock

on the whole has been fairly plentiful with only the average demand. The weather has been beneficial to blossoming plants, which are being held for Easter trade. Roses are plentiful and include Columbia, Ophelia, Sunburst, Killarney, September Morn and Wards, which are lower in price. Violets are plentiful but are none too good in quality. Carnations have been scarce during the past week but a good shipment is promised for the Easter trade. Sweet Peas are good in quality and sell well and the supply is heavy. A good supply of bulbous stock is on the market, also mignonette, marguerites, calendulas, for-get-me-nots. Some good callas are on the market and sell well, also snapdragon in pink and yellow varieties. Greens are plentiful.

The outlook for
PHILADELPHIA an excellent
 Easter week is
 very good, according to the wholesalers, most of whom claim to have advance orders enough to cover all contingencies. Roses are the most plenti-

(Continued on page 385)

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 145 West 28th St., NEW YORK
Telephones: 2200, 2201, Madison Square.

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5335, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

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Consignments Solicited

Phone Farragut 4336

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Fresh Cut Decorative Evergreens.

Highest Standard of Quality. Largest
Stock in America. Write for Illustrated
Catalog of Greens and Florists' Supplies

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WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

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M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 3870 Farragut.

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"A LEADER IN THE WHOLESALE COMMISSION TRADE FOR OVER THIRTY YEARS"

ROSES! I WANT ROSES!

Have a demand for more than I can supply. Rose Growers Call or Write.

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Everything in Cut Flowers

HENRY M. ROBINSON CO. OF NEW YORK

WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 13-4510 Madison Square

Consignments Solicited

MAURION L. GLASS, Treasurer

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Part of Week ending Apr. 12 1919		First Part of Week beginning Apr. 14 1919	
American Beauty, Special	30.00	to 50.00	40.00	to 60.00
" " Fancy and Extra	15.00	to 30.00	20.00	to 40.00
" " No. 1 and culls	3.00	to 10.00	3.00	to 15.00
Russell, Hadley	4.00	to 40.00	4.00	to 40.00
Killarney, Ward	3.00	to 6.00	3.00	to 8.00
Radiance, Taft, Key	3.00	to 25.00	3.00	to 25.00
Ophelia, Sunburst	3.00	to 10.00	3.00	to 12.00
Carnations	4.00	to 6.00	2.00	to 6.00
Cattleyas	40.00	to 75.00	40.00	to 100.00

WE WANT MORE SHIPPERS

We have a numerous clientele of New York City buyers and the demand exceeds our supply. This is especially true of Roses. We have every facility and abundant means and best returns are assured for stock consigned to us.

Address Your Shipments to

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111 W. 28th St., NEW YORK

D. J. Pappas, Pres.

REED & KELLER

122 West 25th St., New York

Florists' Supplies

We manufacture all our

Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
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Boston Floral Supply Co.

347-357 Cambridge St., Boston
SHOW ROOMS, 15 Otis Street and
96 Arch Street

Headquarters for
CYCAS, BASKETS, WIRE DESIGNS
and WAX FLOWERS

HENTZ & NASH, Inc.

Wholesale Commission Florists

55 and 57 West 26th Street

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Farragut

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting
especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
40 STATE STREET . . BOSTON
Telephone Main 56

When writing Advertisers kindly mention Horticulture

Flower Market Reports

(Continued from page 383)

ful item and the great standby for the festival. Carnations are still a little off crop and at the prices going, do not help out much, where the retailer has to make a good showing to his customer, according to old time standards. Orchids rather on the scarce side. The sweet pea is the safety haven for those who have to make a good show for little money, as they are in excellent crop and of fine quality. Delphinium Belladonna and Iris tingitana are also a good help out when it comes to a question of color and form in made up pieces, baskets, and so forth. Callas and lilies are going all right and it looks as if the flowers would come out all right on the rather nervy figure they have started with. Snapdragon, calendula and mignonette were in good supply but were rather neglected and prices did not go up any with the Easter advent like most other things did. There are some fine cuts of Empress daffodils to be seen around—really very well done flowers and readily being taken up.

The flower market never **BOSTON** looked brighter or more in readiness for a record Easter business. There is an abundance of first-class stock and everything is moving rapidly, due in part possibly to the fact that Saturday is a holiday in Boston. Roses are plentiful in all grades and varieties, especially American Beauties and Russells. There is a good supply of excellent sweet peas and pansies, also in good demand. Carnations and callas are also plentiful and the call is all that could be expected. Potted plants are quite a feature this week, and include well-grown spiraea, rambler roses, hydrangeas, rhododendrons, bougainvilleas and bulbous stock. There are a few potted lilies which sell on sight.

The past week market **ST. LOUIS** crowded with prices low in all lines of stock. Sweet peas are abundant and the outlook for Easter is plenty of stock at moderate prices.

The market is improving daily with the promise of a good Easter trade. Roses are going well and carnations in good demand. Quotations firm. Longiflorum lilies and

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Part of Week ending Apr. 12 1919		First Part of Week beginning Apr. 14 1919	
Lilies, Longiflorum.....	15.00	to 20.00	20.00	to 25.00
Lilies, Speciosum.....	.....	to .....	.....	to
Callas.....	16.00	to 20.00	25.00	to 35.00
Iris.....	.50	to 1.00	.50	to 1.25
Lily of the Valley.....	4.00	to 6.00	4.00	to 6.00
Snapdragon.....	3.00	to 12.00	3.00	to 12.00
Pansies.....	.75	to 1.00	.75	to 1.00
Daffodils.....	4.00	to 6.00	6.00	to 8.00
Calendula.....	1.50	to 4.00	2.00	to 4.00
Stocks.....	3.00	to 6.00	3.00	to 6.00
Wallflowers.....	.....	to .....	.....	to
Mignonette.....	2.00	to 6.00	2.00	to 6.00
Sweet Peas.....	1.00	to 2.00	1.00	to 3.00
Violets.....	.35	to .75	.50	to .75
Marguerites.....	1.00	to 2.00	1.00	to 2.00
Gardenias.....	5.00	to 25.00	5.00	to 25.00
Adiantum.....	1.00	to 1.25	2.00	to 2.25
Gladioli.....	.....	to .....	.....	to
Asparagus Plumosus, & Spreng (100 bunches).....	10.00	to 25.00	15.00	to 30.00

callas have had a good sale with prices way ahead of any previous year. There has been a good supply of callas, but longiflorum are short of the demand. The supply of snapdragon, daisies, mignonette and asparagus is plentiful. Lily of the valley, Victorias and good tulips are on the light side and moving easily. Gardenias at present are selling in limited quantities now while cattleyas are at a premium. Smilax is cleaning up at quoted prices.

At this writing Easter **CHICAGO** shipping is under way. All plant deliveries are about finished and the supply is nowhere equal to the demand, growers having their establishments filled to the limit without being able to produce an amount sufficient to keep up with the growing demand for plants at Easter and the other holidays. In cut flowers it looks now as if there would not be enough to go round, even when customers are willing to take what stock is offered and not what they prefer. Easter week was ushered in with a down pour of rain and a cold north-east wind, which has not tended to increase the output of the greenhouses and at this date, April 15, the dark clouds are still hanging low and a steady rain is falling. The shortage of cut lilies has led to thousands of artificial ones being placed on the market to satisfy the public, who crave the usual Easter flower. Some of paper are such poor substitutes that it is hard to believe that those in the trade would actually be the first to push their sales, but it is so, and should the people really accept the cloth ones, some of which are very fair, it will be another case of paving the way for the public to do without natural flowers. In one of the department stores a lily plant with three buds, three blossoms, with moss and crepe paper cover,

three stalks, plenty of foliage, a pot all for \$3.30 and the sad part is that it looks altogether too natural.

EASTER PLANTS

In Easter plants, the sales of which have each year become a greater factor, Chicago florists faced three unusual conditions: 1st, the bulb stock was all through with because of the lateness of Easter, and the pots and pans of tulips, daffodils and hyacinths were sadly missed; 2nd, the azaleas, so long queen of the Easter plants, were missing, owing to the war, which has devastated that Belgian industry; and 3rd, the most serious to the masses of the Easter celebrants, the scarcity of the lilies. The loss of the azaleas is partly overcome by the splendid stock of hydrangeas, the finest ever grown in Chicago, and which includes the blue and pink as well as the white, the spireas, the Easter Greetings pelargoniums and the roses. These last trained in the umbrella shapes were different this year. Instead of using the standard rose with the grafted top, the canes of the climbing roses Lady Gay, Rambler and Tausendschoen have been brought up to the desired height and then trained to form the rim top. The canes, covered with foliage and flowers, are more attractive than the bare wood as formerly used. The roses in baskets were particularly graceful, the plants being trained to form handles to the baskets. In spireas some of the new pink shades are a decided improvement over the old kinds. Rhododendrons, from California grown stock, come in large sizes only and are gorgeous in their beautiful colorings. A limited quantity of genistas are to be had. The lily plants are selling at the rate of 50c. per bud and blossom, and there are not nearly enough to go round.

CAMBRIDGE

NEW YORK



World's Oldest and Largest
Manufacturers of

FLOWER POTS

WHY?

A. H. HEWS & CO., INC.
Cambridge, Mass.

MOST SOILS NEED LIME

Farm experience and experimental evidence show that lime is needed and gives good returns on most of our soils and with most crops, according to Henry Dorsey, Agronomist for the Extension Service of Connecticut Agricultural College at Storrs. However, farmers should remember that lime will not take the place of drainage, the proper seed bed, good seed, or an abundant supply of plant food. Lime is not a plant food; it is an agent that induces good soil sanitation, thus promoting bacterial activity and leading to the best of combinations for plant growth.

Ground limestone is the safest form of lime to use, but double the weight is required to give the same results one would receive from burned lime. The amount to apply varies widely, due to the varying acidity of the fields. A safe application is about two tons to the acre, but good results are often secured from a single ton. This should be applied uniformly once each four or five years before corn or at the time of seeding down the land, and should be thoroughly harrowed into the soil when applied.

The finer the limestone is ground the quicker it will act. If it all will pass through a 10-mesh screen about half of the material will pass through a 50-mesh screen. While a finer product is desirable, the cost of producing it is so much greater that it justifies the use of the coarser material but in slightly larger amounts. Ground limestone that will all pass a 60-mesh screen is entirely satisfactory.

Farmers who expect to use lime should remember that the lime is going to cause more humus to be used up. This means larger crops, but unless provision is made for restoring or increasing the humus of the soil, eventually the soil will become poorer. Manure and green crops for plowing down furnish a ready means for restoring humus which is active and effective in crop production.

We should lime our soils, but at the same time we should see that manure or other organic matter is applied so that the greatest benefit may be realized from the lime.

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Advertisements in this Department, Ten Cents a Line, Net

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Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

CANNAS

For the best Up-to-Date Cannas, get new price list. **THE CONARD & JONES CO.**, West Grove, Pa.

CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. **Pillsbury's Carnation Staple**, 1000 for 35c.; 3000 for \$1.00 post-paid. **I. L. PILLSBURY**, Galesburg, Ill.

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Strong rooted cuttings of Oconto, Harvard, Glow, Razer, Polly Rose, Yondota, Helen Lee, Chieftain, Chrysolora, and all standard sorts. \$2.00 per 100, \$15.00 per 1000. Ready now. Order today.
I. M. RAYNER, Greenport, N. Y.

DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell. \$10.00 per clump. Cash with order.
JOHN P. ROONEY, New Bedford, Mass.

New Peony Dahlia—**John Wanamaker**, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to **PEACOCK DAHLIA FARMS**, Berlin, N. J.

GLASS.

Greenhouse glass, lowest prices. **JOHN-STON GLASS CO.**, Hartford City, Ind.

IRIS

Iris Prestige. F. C. C. M. H. S. 1915, the standards, the style-branches, and the edges of the falls a clear Lemon Yellow; the haft and the center of the falls white with sharply defined lines of Mars Violet. 18 in. 50 plants, \$75.00. An example of the New Iris we offer. **THE GLEN ROAD IRIS GARDENS**, Wellesley Farms, Mass.

ORCHIDS

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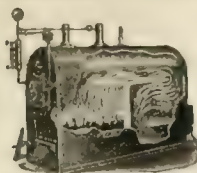
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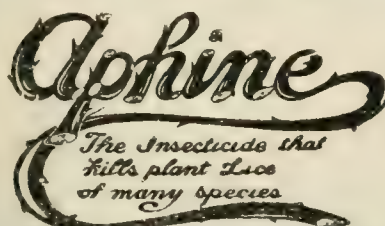
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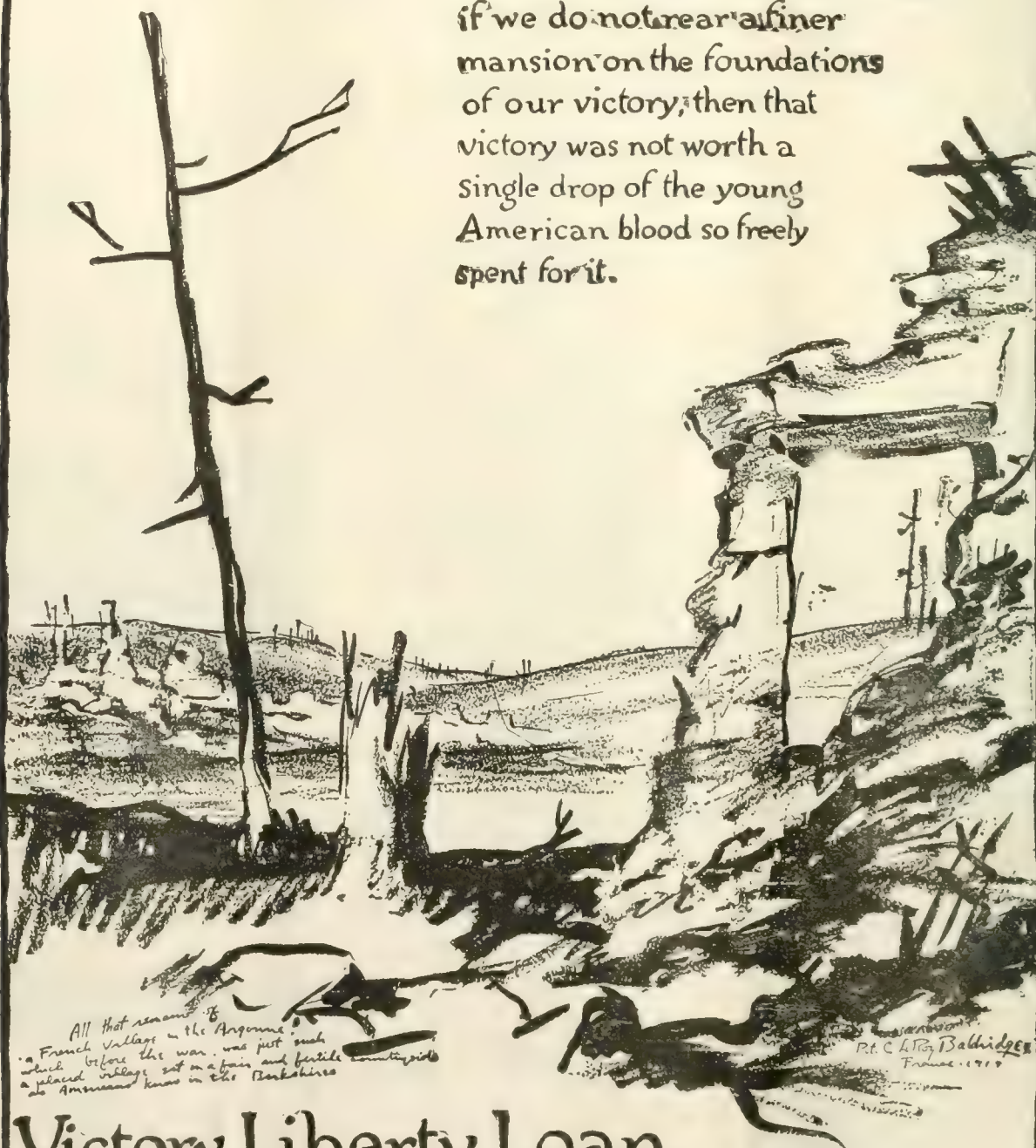
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HORTICULTURE

Vol. XXIX

APRIL 26, 1919

No. 17

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LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....411	Cooke, Geo. H....404	Hart, Geo. B....406	Michigan Cut	Robinson, Henry	Stumpp, G. E. M.404
Allen, J. K.....408	Conard & Jones.399	Heistad, H.....391	Flower Ex.....406	M. Co. ....408	Stumpp & Wal-
American Bulb	Cowee, W. J....406	Hess & Swoboda.405	Murray, Samuel.404	Robinson, H. M.	ter 390
Co. ....390	Craig Co., Robt.391	Hews & Co., A.	Nicotine Mfg.Co.409	& Co. ....406	
American Fores-		H. ....410	Niessen, Leo Co.406	Roehrs, J. Co....399	
try Co.....399		Hill Co., E. G....406	N. Y. Botanical	Roland, Thomas.405	Thorburn, J. M.
Anderson, S. A..405	Danker .....404	Hill, D. Nursery	Gardens .....397	Rosery, The ....404	& Co. ....390
Aphine Mfg. Co.409	Dards .....404	Co. ....399		Rosery, The ....404	Totty, Chas. H..392
	Dreer, H. A....411	Howard, W. D..397		Ross, F. M.....405	
Barrows, H. H..392	Dunlop, John H.405				
Bay State Nur-	Dysart, R.....408				United Cut Flow-
series .....391					er Co. ....408
Bobbink & At-	Edwards Folding	Irwin, R. J.....390	Palmer, W. J. &	Schultheis, An-	
kins .....391	Box Co.....406		Son .....405	ton .....392	
Boddington Co.,	Elm City Nur-	Johnston Bros..404	Park Floral Co..405	Sheridan, W. F..408	Vincent, R., Jr.,
Inc., A. T.....401	series .....399		Parshelsky Bros.411	& Sons Co....389	
Bolgiano & Son.390		Kasting, W. F.	Penn the Florist.404	Siebrecht, Geo.C.408	
Boston Floral	Farquhar, R. &	Co. ....406	Pennock, S. S.	Siggers & Sig-	Wants, For Sale,
Supply Co.....408	J. Co.....390	Kelway & Son..390	Co. ....389	gers .....411	etc. ....410
Breck, J. & Sons.390	Fengar, E. W...391	Kervan Co.....408	Pino-Lyptol	Skidelsky, S. S.	Warburton .....405
Breitmeyers, J.	Ford, M. C.....408	Knoble Bros....405	Chemical Co..407	& Co. ....390	Weber, F. C....405
Sons .....404	Ford, W. P....408	Kroeschell Bros.411	Pierce Co., F. O.411	Smith, Elmer D.	Wilson .....404
Budlong, J. A....406	Froment, H. E..408	Kuebler, W. H..408	Pierson, A. N...389	& Co. ....391	Wood Bros. ....405
Bunyard, A. T...404		Kottmiller .....404	Pierson, F. R...389	Smith, W. & T.	Woodmont Nur-
Burnett Bros....390	Galvin, Thos. F.405	Lemon Oil Co..402	Pulverized Ma-	Nursery Co....399	series .....399
Burpee, W. A. &	Gasser Co., J. M.405	Liggit, C. U....391	nure Co.....409	Smith, The Flor-	Woodruff, S. D.
Co. ....390	Graham & Son,			ist .....405	& Sons .....390
	A. ....405	McHutchison Co.391	Randall Flower	Smith & Fettes	
Carter's Tested	Grakelow, Chas.	Marshall, W. E.	Shop .....405	Co. ....405	Young, A. L....408
Seeds, Inc.....390	H. ....405	& Co.....390	Reed & Keller...408	Smyth, Wm. J..405	Young, John....408
Childs, John	Grey & Co., T. J.390	McKenzie, John.405	Reidel & Meyer.408	Society of Amer-	
Lewis .....399	Gude Bros. Co..404	Michell, H. F. Co.401	Reid, Edw.....406	ican Florists..412	
Clarke, D. Sons.404			Reuter, L. J. Co.392	Stearns Lumber	
Coan, J. J.....408			Rice & Co., Je-	Co., A. T.....411	Zech & Mann...406
			rome B.390		

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Plant Propagation, Greenhouse and Nursery Practice

By M. G. KAINS

We have had many inquiries from time to time for a reliable and up-to-date book on plant propagation, but were always at a loss to find any publication that we could recommend. The subject has been dealt with in fragmentary manner only in books that have come to our notice. So it is well that this new work has been issued, especially as it is both comprehensive and practical, and it should meet with a ready sale among plantsmen, nurserymen and gardeners. There are nineteen chapters covering in detail topics of germination and longevity of seeds, propagating by buds, layering, cuttings, grafting, etc., fruit tree stocks, scions, etc., and there are eight pages of condensed cultural instructions in tabulated form, covering annuals and perennials from seed, woody plants, evergreens, vines, bulbs and tubers, greenhouse and house plants, ferns, palms, water plants, orchids and cacti. The illustrations are numerous, comprising 213 figures and halftone plates. There are 322 pages well bound and on heavy paper, teeming with helpful information. It is a book which no cultivator can afford to do without. It is worth many times its price. Copies can be supplied from the office of HORTICULTURE at publisher's price, \$1.50.

HORTICULTURE PUBLISHING CO.
147 Summer St., Boston, Mass.

In writing to Advertisers kindly mention Horticulture



SORBARIA ARBOREA.

ORNAMENTAL SHRUBS.

One who would have his grounds as attractive as possible must exercise considerable discrimination in selecting his plants. Too often one yields to the temptation to plant shrubs that shall present an attractive appearance at flowering time only, whereas, if more thought were given to the matter, equally fine plants could be selected that would possess much beauty at other times. There are always sufficient flowers when the great burst of bloom is on in May, but often there is a conspicuous lack both earlier and later. By judicious planting one may, however, have flowers both early and late, and bright colors always. Early spring brings the golden bell, corylopsis and garland flower (*Daphne*) while some species of dogwood and willow vie with them

in color. In late summer there are the rose-of-Sharon, blue sage (*Caryopteris mastacantha*), butterfly bush, pea tree, abelia, hercules club and various others. Even autumn is not without its blooming shrubs and the witch hazel often flowers in November. The brightest colors of this latter season, however, are given by leaves, berries and bark. The bright red of barberry, high bush cranberry, and hawthorn, the orange and red of bittersweet, and the clear white of snowberry, are more conspicuous after the leaves have fallen, but the most brilliant reds of autumn are due to the colors put on by the leaves of sumach, chokeberry, barberry, and young plants of the wild crab. If nurserymen were to give somewhat more emphasis to the good points that shrubs possess in addition to flowers, it is probable that a more extensive business would result.—*American Botanist*.

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CONTENTS

	Page
SORBARIA ARBOREA, <i>illustrated</i>	393
ORNAMENTAL SHRUBS	393
S. A. F. & O. H.—National Publicity Campaign.....	395
EXPLANATION OF ENTRY OF PLANT NOVELTIES UNDER QUARANTINE NO. 37—Quarantine on Black Stem Rust—Instructions for Sterilizing Sand and Soil for Packing Bulbs Under Quarantine No. 37	396, 397
CLUBS AND SOCIETIES:	
Westchester and Fairfield Horticultural Society—New York Florists' Club.....	398
OBITUARY:	
Jas. M. Buist—Robert S. McCormick—Jos. A. McClunie—Joseph Craig	399
COMMUNITY BETTERMENT—Geo. N. Smith.....	400
SEED TRADE—Potato Diseases Prevalent—Seaweed Furnishes Potash Fertilizer.....	401
SALES AND PROFITS—Hodgson Jolly.....	401, 402
FLOWER MARKET REPORTS:	
Boston, Philadelphia, St. Louis, Cincinnati.....	407
Chicago, New York.....	409
MISCELLANEOUS:	
Fertilize the Farm Orchard.....	397
Polyantha Roses as Bedding Plants.....	403
Pruning Rambler Roses with Hedging Shears.....	410
New Green Bean from Japan.....	398
Azalea ledifolia	395
The Wave of Prosperity—Henry Penn.....	395
Greenhouses Building or Contemplated.....	409
Publications Received	410
Patents Granted	411

Revival of retail trade

Never in its history has the retail horticultural trade been more active than since the opening of the present season.

Seedsman all over the country have been unable to keep up with their orders, and nurserymen are struggling with masses of orders which had accumulated prior to the opening of the shipping season. During the past two years many owners had, from sentimental or economic reasons, spent but little money on their gardens—in fact, it would have been considered in bad taste or, even unpatriotic to have expended money and labor on any garden other than a war garden. Then the war garden has not been of unmixed benefit. To the market gardener and suburban farmer it has been a source of trouble, upsetting his markets, especially for the more easily grown summer vegetables. The effect was such that many market growers found it unprofitable to gather their crops and many were actually plowed under. The war garden, like the war itself, is already a thing of history and we have swung back to our former manner of living. Writing from Europe some four weeks ago a young American said, "I want to get back to God's country, although it go as dry as Sahara"—and those who have not been obliged to leave God's country are now equally anxious to get back to God's way of living in it. What is more they are getting back, and that is why our trade is booming and will boom throughout the year and for years to come.

A delusion or snare?

Amendment No. 2 to Regulations supplemental to Notice of Quarantine No. 37 together with a letter indexed HB-104 and dated March 25, 1919, of the Federal Horticultural Board appear to be most misleading in view of the Board's more recent letter HB-105 dated April 10, 1919. The amendment and letter of March 25th would seem to indicate a letting down of the bars to the extent of enabling nurserymen and florists to import necessary propagating stock of new varieties and standard stocks," and the letter stated that "Permits of the latter class (from countries which maintain inspection and certification of nursery stock in accordance with the requirements of the Plant Quarantine Act) will be issued only for ports where inspection service is maintained including at present Boston, New York, Newark, San Francisco, Seattle, also Philadelphia and New Orleans. Now it appears that all such imports must go to Washington and later be released to the importer. This requirement renders the new regulation of little value and really leaves the whole matter very uncertain as to what the intending importer must eventually submit to. Is there no one on the Federal Horticultural Board who possesses enough common sense to see the wisdom of setting forth in one pamphlet in a lucid manner the Quarantine and its amendments and regulations in a form that will do away with its present ambiguity as now contained in the numerous publications of that Board which appear to be largely supplementary and contradictory.

Prices It is noticeable how readily customers accept and respond to the higher prices now asked for flowers and plants. It is seldom that there is any occasion for explanation—purchases are made and paid for with the evident understanding on the part of the customer that the higher prices now charged are necessary and proper. It is of most importance that the florist reciprocate this spirit by seeing to it that his patron receive the best possible service and value in exchange for the money spent. A satisfied customer brings others and this is the surest way to success.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

NATIONAL PUBLICITY CAMPAIGN.

After Easter, what? Easter needs very little advertising, so much is done for nothing. It might be wondered how much the florists would pay for the front page of *The Saturday Evening Post* of April 19, were the opportunity offered them. Our Promotion Bureau is inclined to take this page as a courtesy, for it surely speaks volumes. And some of us may remember that this same journal turned down our application for a page in one of its Spring issues, for the reason that the pressure upon its productive capacity was so great it could not increase its bookings without over-running its capacity for production. We considered this to be rather unfortunate. But who shall say that the cover page we have referred to does not convey the message of our slogan, "Say it with Flowers."

After Easter will come our main Spring effort to put flowers in the public mind. A magazine circulation of many millions will carry our messages. The public will see our color page in seven leading magazines featuring "Flowers Make a Brighter Business Day." Other magazines will feature, in large space, "How Flowers Beautify the Table," and "Just as a Sign that you haven't 'forgot,'" advertisements which make an appeal and carry a punch such as is sure to attain for us our object—a greater use of flowers. Then, our Promotion Bureau has prepared a special electrotpe for "Memorial Day," a time when flowers will be more plentiful than at any time since the fuel embargo went into effect. We shall be back to the time when, production considered, gluts used to prevail.

Publicity such as we are procuring is designed to prevent gluts. The tremendous army of "forgetfuls" will get their reminders wherever they look. The slogan "Say it with Flowers" peeps out at them from their favorite magazines, from the florists' windows (that is to say, windows of live florists) from the columns of local papers, and stare at them from the sides of the delivery cars of all progressive florists. We are to see to it that this slogan intrudes still further, but more money is required to accomplish this.

Now, Mr. Nonsubscriber, are you seriously considering what all this means to you. Are you content to stand apart from your brother florists and say "This does not apply to me. I am well known, and business will come to me just the same?" In our mindseye we can see you just this way. But who creates the business for which you lay in wait? Do you create anything yourself? Don't you think it is up to you to do a little creating? Can you do it better than by contributing to our National Publicity Campaign Fund?

If you have followed the little articles which we have written, and which your trade paper has so kindly published for so many months, you surely must have absorbed the idea of the wisdom of creating business. The increase of the demand for flowers is the sole object of this Campaign.

It is being attained, and it is fair to suppose that, necessarily, your business is being benefited in the attainment. Come now, put on your glasses and take a man's broad view of the situation. If you do this, we are sure you will support the Campaign to the extent you think proper, and we are waiting to hear from you.

The following subscriptions have been received and are in addition to those previously announced, annually for four years unless otherwise stated:

Robbins & Sons, Loveland, Colo.....	\$5.00
Theo. Wolniewicz, Chicago, Ill. (1 yr.)..	20.00
Schneider & Noe, Congers, N. Y. (1 yr.)	5.00
C. Smith & Son, Woodside, N. Y. (1 yr.)	5.00
John Joyce, Congers, N. Y. (1 yr.).....	5.00
W. W. Mathews, Great Neck, L. I. (1 yr.)	5.00
A. J. Stahelin, Redford, Mich.....	50.00
Adam Heltz, Louisville, Ky. (1 yr.)....	5.00
Weiss & Meyer Co., Maywood, Ill.....	25.00
Paul M. Carroll, Houston, Texas.....	10.00
Miss Jeanie E. Murray, Kansas City, Mo.	5.00
Robbins Bros., Cambridge, Mass. (1 yr.)	10.00
J. A. Peterson & Sons, Cincinnati, O. (1 yr.)	25.00
Geo. T. Ryan, Waterbury, Conn. (1 yr.)	10.00
Daum Bros., Chicago, Ill. (1 yr.).....	25.00
G. Fleischaur, Pueblo, Colo. (1 yr.)....	10.00
Chas. B. Herr, Strasburg, Pa. (1 yr.)...	5.00
L. H. Neubeck, Buffalo, N. Y. (1 yr.)...	5.00
The Skinner Irrigation Co., Troy, O. (1 yr.)	25.00
Hiram J. New, Manchester, Iowa. (1 yr.)	5.00

\$260.00
Previously reported\$34,602.50
Total\$34,862.50

JOHN YOUNG, Secy.

April 19th, 1919.

1170 Broadway New York.

THE WAVE OF PROSPERITY

Has it hit you in the past six months? Have you been alert to the many opportunities that presented themselves, or have you been content to just keep moving along?

In my several journeys during the past few months, amongst the florists from Boston to the Mississippi, I have noticed a wonderful change of attitude as to business success from the florists' standpoint; more business, more profits, and more optimism. It is apparent everywhere. Of course, there were many reasons for it, but of all there seems to be one that sticks out most prominently, that makes me glad that we entered into a publicity campaign for flowers—our slogan, "Say It With Flowers," is being seen everywhere, and the way the public has taken to it is worthy of remark, because of the position which flowers, and florists generally, were held in public opinion, not always one of confidence. But now, owing to the manner in which our campaign is being forced on the public, there is a feeling of confidence and dignity, in which we may all take pride. Are you hitching to it, or letting the opportunity go by?

Take a dip in this wave and get wet a bit, it will do you good, and you will emerge with a good, wholesome desire to do still more business and also to keep our industry on still higher planes than you ever anticipated.

Just a little subscription to our fund will help you to make greater doings possible and, incidentally, you will be helping yourself.

HENRY PENN, Chairman,
National Publicity Campaign.

AZALEA LEDIFOLIA.

The *Ledum*-leaved Azalea is a most beautiful shrub, possessing all the good qualities of *A. indica* without the delicacy of the latter. It is evergreen, the spreading branches being well covered with foliage, and the pure white flowers are large and wide open, as in those of the other species named. *A. ledifolia* does well in ordinary well-drained loam and leaf-soil, delights in half shade, and is a most persistent bloomer from late spring well into summer. It appears to be perfectly hardy in most places.

EXPLANATION OF PROVISIONS FOR ENTRIES OF PLANT NOVELTIES AND PROPAGATING STOCK UNDER QUARANTINE No. 37

Regulation 14 of the regulations relative to the importation of nursery stock and other plants and seeds has been revised and reissued. In its new form it is essentially an interpretation of the old regulation 14 rather than an enlargement of powers under the quarantine, inasmuch as the regulation, as worded in the quarantine as originally issued, was intended to cover exactly what is now more clearly stated in the new regulation. This regulation provides for the importation under a special permit from the Secretary of Agriculture, of limited quantities of otherwise prohibited stock for the purpose of keeping the country supplied with new varieties of plants and stock for propagation purposes not available in the United States. This amendment, however, does not apply to a few plants which have been specifically prohibited entry under other quarantines, as, for example, pines, Ribes and Grossularia from certain countries, and citrus, banana, and bamboo stock.

The following explanations of regulation 14 are given to indicate the limitations under this regulation and the procedure to be followed in making importations of the two classes of plants specified, namely, new varieties and necessary propagating stock.

The expression "New Varieties" is understood to mean plant novelties, that is, new horticultural or floricultural creations or new discoveries.

"Necessary Propagating Stock" is understood to mean stock of old or standard varieties imported for the multiplication of the plants in question as a nursery or florist enterprise as distinguished from importations for immediate or ultimate sale of the stocks actually imported, and such importations will be restricted to stocks which are not available in this country in adequate quantities.

The expression "Limited Quantities" used in regulation 14 is understood to mean with respect both to new varieties and to standard stocks, such quantities as will supply reasonable needs for the establishment of reproduction plantings which may be thereafter independent of foreign supplies.

There is no limitation as to the number of permits for different plants or classes of plants under regulation 14 which an individual may request, but

the applications will all be passed upon both as to necessity for the particular importation and as to the quantity adequate for the purpose intended, by experts of the Department, for the information of the Board prior to the issuance of the permits.

All importations under regulation 14 must be made under special permits through the Office of Foreign Seed and Plant Introduction of the Department of Agriculture but for the use of the individual importer. The importer will be required to meet all entry, transportation and freight-handling charges. The Department will make no charge for inspection and supervision. The necessary procedure for making such importations is as follows:

1. The Federal Horticultural Board will supply, on request, an application blank upon which request may be made for a special permit to import. This application embodies an agreement on the part of the importer that if the imported material is found on examination by an inspector of the Department of Agriculture to be so infested or infected with insects or disease that it cannot be adequately safeguarded, it may be destroyed and such destruction will not be made the basis of a claim against the Department of Agriculture for damages. The application must be accompanied by a statement certifying that the plants to be imported are novelties or if standard varieties of foreign plants, that stocks in adequate quantities for their propagation are not available in this country, and that in either case they are to be imported for the establishment of reproduction plantings and not for immediate or ultimate sale of the stocks actually imported. In exceptional cases the importation of novelties may be made for personal use but not for sale. The application must also give the name and address of the exporter, country and locality where the stock was grown, the name and address of the importer and the name and address of the nursery or other establishment in which the plants are to be reproduced on release.

2. If the permit is issued, the applicant will be furnished shipping instructions and shipping tags to be forwarded with his order to the exporter. The plants will, in consequence, be

addressed in bond to the U. S. Department of Agriculture, Bureau of Plant Industry, Washington, D. C., United States of America, and indorsed, "Foreign Seed and Plant Introduction, for (insert name of importer)", and arrangements must be made with some responsible agency in Washington for the clearance of the plants when received through the Custom House at Georgetown, D. C., together with the payment of all charges involved.

3. Upon clearance through the Georgetown Custom House the material will be turned over to the Office of Foreign Seed and Plant Introduction by the authorized agent of the importer, and in the specially equipped inspection houses and under expert care as to the welfare of the plants, be carefully examined by inspectors of the Federal Horticultural Board. If found free from dangerous insects or diseases, the shipment will be immediately and carefully repacked and forwarded by express, charges collect, to the importer.

4. Cleaning and disinfection will occur for slight infestation, but should the material be found to be so infected or infested with either disease or insects that it cannot be so adequately safeguarded, it will either be destroyed, or, when possible and desirable, returned to the point of origin.

Yours very truly,

C. L. MARLATT,
Chairman of Board.

QUARANTINE ON ACCOUNT OF BLACK STEM RUST.

Notice of Quarantine No. 38.

(Effective on and after May 1, 1919)

The fact has been determined by the Secretary of Agriculture, and notice is hereby given, that the common barberry (*Berberis vulgaris*) and its horticultural varieties, as well as other species of *Berberis* and *Mahonia*, are capable of harboring the black stem of wheat, oats, barley, rye, and many wild and cultivated grasses. Through the co-operation of the Department of Agriculture with State officials, local organizations, and individuals, susceptible species of barberry and *Mahonia* have been very largely eradicated from the states of Nebraska, Iowa, Illinois, Indiana, Ohio, North Dakota, South

Dakota, Minnesota, Montana, Wisconsin, Michigan, Wyoming and Colorado.

Now, therefore, I, David F. Houston, Secretary of Agriculture, under the authority conferred by Section 8 of the Plant Quarantine Act of August 20, 1912 (37 Stat., 315), as amended by the Act of Congress approved March 4, 1917 (39 Stat., 1134, 1165), do hereby quarantine, effective May 1, 1919, the states of Alabama, Arizona, Arkansas, California, Connecticut, Delaware, Florida, Georgia, Idaho, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Mississippi, Missouri, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, and the District of Columbia, and by this Notice of Quarantine No. 38 do order that no plants of the following species, *Berberis aethensis*, *B. altaica*, *B. amurensis*, *B. aristata*, *B. asiatica*, *B. atropurpurea*, *B. brachybotrys*, *B. brevipaniculata*, *B. buxifolia*, *B. canadensis*, *B. caroliniana* (carolina), *B. coriaria*, *B. cretica*, *B. declinatum*, *B. fendleri*, *B. fischeri*, *B. fremontii*, *B. heteropoda*, *B. ilicifolia*, *B. integririma*, *B. laciflora*, *B. lycium*, *B. macrophylla*, *B. neopalensis*, *B. neubertii*, *B. siberica*, *B. sieboldii*, *B. sinensis*, *B. trifoliolata*, *B. umbellata*, *B. vulgaris* including its subspecies and horticultural varieties, *Mahonia aquifolium*, *M. diversifolia*, *M. glauca*, and *M. repens*, shall be moved or allowed to move interstate to points outside of the quarantined area.

This quarantine shall not apply to the movement by the United States Department of Agriculture of the products named for experimental or scientific purposes.

Done in the District of Columbia this 15th day of April, 1919.

Witness my hand and the seal of the United States Department of Agriculture.

D. F. HOUSTON,
Secretary of Agriculture.

INSTRUCTIONS FOR STERILIZATION OF SAND, SOIL, OR EARTH USED FOR PACKING BULBS IMPORTED UNDER NOTICE OF QUARANTINE NO. 37.

Amendment No. 1 to the regulations supplemental to Notice of Quarantine No. 37 provides that the requirement of Regulation 3 as to freedom from sand, soil, or earth of nursery stock and other plants and seeds permitted entry under that regulation, shall not

apply to sand, soil, or earth used for packing the articles enumerated in Item No. 1 when such sand, soil, or earth has been previously sterilized in accordance with methods prescribed by the Federal Horticultural Board under the supervision of a duly authorized inspector of the country of origin.

The requirement as to sterilization may be met by heating the sand, soil, or earth to a temperature of 100 degrees Centigrade (212 degrees Fahrenheit) and maintaining that temperature for a period of one hour. Such sterilization is accomplished at one of the field stations of this Department by the use of a large iron receptacle holding about a cubic yard of soil. A fire is built under the receptacle and in a short period the contained earth is heated sufficiently to kill all larvae, nematodes, etc. It is necessary to keep the soil stirred while heating. Any device which will maintain the heat at the required temperature for one hour will be satisfactory to the Board.

The invoice covering importations of bulbs packed in such sterilized sand, soil, or earth must be accompanied by a certificate of a duly authorized inspector of the country of origin to the effect that the required sterilization has been accomplished under his direction. The certificate should indicate the marks and numbers on the cases and should contain such other information as may be necessary to identify the cases which it covers.

C. L. MARLATT,
Chairman of Board.

April 10, 1919.

FERTILIZE THE FARM ORCHARD.

The farm orchard can be maintained in satisfactory condition by the use of stable manure and wood ashes applied on the ground about the tree, spreading it well beyond the extent of branches as well as under the branches. Give a liberal application. On poor soil use more than on a more fertile soil.

For those who cannot obtain stable manure use a high grade commercial fertilizer, applying from 20 to 30 pounds per mature tree. Ground bone is an excellent material to use, but for immediate effect a more quickly available form of nitrogen should be used, such as nitrate of soda, two to five pounds per tree, or sulphate of ammonia in similar amounts. Tankage is a good fertilizer. Stable manure and acid phosphate or in some cases rock phosphate may be used. Lime is needed on many soils and may

be applied at the rate of a ton or more per acre or 25 to 50 pounds per mature tree; if ground lime stone is used apply double the amount mentioned.

Peaches, perhaps, more than any other fruit tree, require liberal fertilization for paying crops of fruit. Trees which are inclined to be weak, either from the severe winter, effects of leaf curl, over-bearing, or other causes, may be revived by stimulating them with nitrate of soda, applied just as the buds are starting in the spring and again during the summer. If the fertilizer is applied before a light rain, the effect upon the tree may appear within a few days. While a complete fertilizer is recommended for peaches, nitrogen has been found to be the limiting factor in many peach orchard experiments. Two light applications give better results than one heavy one. The nitrogen is quickly available and may be lost by leaching if only one application is made early in the season.

No hard and fast rule can be made in regard to the fertilization of orchards, but for those who have unprofitable trees, perhaps neglected, unpruned and unsprayed, the following program is submitted:

Prune your trees.

Spray them.

Fertilize them, using any of the following:

For Mature Apple Trees.

1. Stable manure—ten to fifteen loads per acre, or half a load per tree.
2. Stable manure and 300 pounds Acid phosphate.
3. 500 pounds of a high grade fertilizer analyzing 6 per cent nitrogen and 8 per cent phosphorus.
4. Nitrate of soda—4 to 8 pounds per tree.

Acid phosphate—5 to 8 pounds per tree.

Muriate of potash—2 to 3 pounds per tree (if available and needed).

Peach Trees.

1. One and two year old trees $\frac{1}{2}$ lb. nitrate of soda. Mature trees may receive as high as three pounds in two applications.
2. High grade complete fertilizer, 5 pounds per mature tree.
3. Ground bone 5 to 10 pounds and $\frac{1}{2}$ pound nitrate of soda per tree.

Plum and Cherry Trees.

The growth and condition of the crop will be an indication as to their fertilizer needs, and that recommended for peaches may be used.

Grapes.

A complete fertilizer high in nitrogen, 1 to 3 pounds per vine; or Nitrate of soda $\frac{1}{4}$ to $\frac{1}{2}$ lb. per vine may be used.

CLUBS AND SOCIETIES

THE WESTCHESTER AND FAIR-FIELD HORTICULTURAL SOCIETY.

The regular monthly meeting of the above society was held in Hubbard's Hall, Greenwich, Conn., Friday evening, April 11. Three new members were added to the roll. The judges for the evening were Robert Williamson, Tom Atchison and John Forbes. Awards were as follows: Ophelia roses from Robert Grunert, first prize; roses from W. J. Sealey, second; wall flowers from Paul Dwenger, third. P. W. Popp staged a very fine vase of the new rose Evelyn for the A. N. Pierson Co., Cromwell, Conn., and received a certificate of merit. William Whitton read a very good essay on commercial fertilizers. Maurice Fuld of New York gave a lecture on color schemes for bedding out.

JACK CONROY,
Cor. Sec.

NEW YORK FLORISTS' CLUB.

The regular meeting was held April 14th at the Grand Opera House building. Attendance was light owing to Easter.

C. H. Totty staged a vase of John Dunlop's new rose, Frank W. Dunlop, which scored 90 points and was given a preliminary certificate. Antirrhinum shown by J. Raffreezer, Teaneck, N. J., received a vote of thanks. Orchid-flowering sweet peas shown by John Weston, Valley Stream, L. I., were highly commended.

Dr. Chas. T. Baylis spoke on the coming Victory Loan, and subscriptions amounting to ten thousand dollars were taken.

Chas. H. Totty reported that the preliminary schedule for the 1920 International Flower Show would be available in a few days.

F. R. Pierson reported for the committee which had charge of the protest against Quarantine No. 37 and read the reply of D. F. Houston, Secretary of Agriculture, to the effect that there would be no changes made in the bill and it would go in effect at the time named.

Chas. H. Totty, chairman of the committee on publicity, spoke at length on the Milwaukee plan of taxation. A discussion followed, the consensus of opinion being that the work proceed as originally planned.

New members elected were: C. Nie-man, 299 Broadway; Rocco Trebaldie, 426 Madison Ave.; A. M. Van der Schoot, 299 Broadway; Frank Heid, Tarrytown, N. Y. C. Peterson, 491 5th Ave. and Frank Golsner, College Point, were nominated for membership at the next meeting.

Pres. Kessler appointed A. L. Miller, P. W. Popp and J. G. Esler a transportation committee for the S. A. F. convention at Detroit next August.

A vote of thanks was extended to G. E. M. Stumpp for the dinner decorations at the club's dance last month in the Biltmore Hotel.

CHICAGO.

Raymond C. Craig, son of the late Joseph Craig, is back from France but still in the east and was not able to attend his father's funeral.

Peter Reinberg's name is associated with the decision of the South Park board to rename 12th Street Roosevelt Boul. and place a suitable statue of Roosevelt at the eastern end of that street on the lake front. Mr. Reinberg has done much good work for Chicago and this adds one more thing to his credit.

One of the large department stores, which has always featured an Easter lily sale of large proportions, came out with the big headline, "Easter Lilies," and below regrets that owing to war measures prohibiting the importation of lily bulbs it was impossible to secure the usual stock of pot plants and hopes that the sale would take place next year.

The eleven tracks of woodland and river country, known as the Forest Preserves, and purchased by Cook Co. last summer, are being much enjoyed by the Chicago people on these early spring days. Most of them can be reached by street car or trolley lines now and it is a part of the plan to have a driveway connecting them. The boulevard drive connecting the city parks is 55 miles long and when this outer park drive is made Chicago will have two driveways of which she has a right to be proud.

NEW GREEN BEAN FROM JAPAN SUCCESSFULLY GROWN IN U. S.

An American missionary in Japan, interested in the introduction of good crops from the Land of the Rising Sun into the domain of Uncle Sam.

sent a sample of Hahto soy beans, which he had purchased at an agricultural fair, to the United States Department of Agriculture about three years ago. This bean has since been grown successfully at the Department's Arlington (Va.), experimental farm, and has been tested in other parts of the country. Although the Hahto bean, which produces excellent green vegetables similar to lima or butter beans, is preferably adapted for culture in the southern states, the variety also produces profitable yields of green beans during favorable seasons in the corn belt.

The Hahto soy bean is a bush variety which grows high enough to produce abundant forage, yielding nearly as large hay crops as the Mammoth Yellow, and is believed to be superior in seed production to that variety. When the seeds are from three-fourths to full grown they make an excellent green vegetable. A number of residents of the District of Columbia and several states grew the bean in their gardens last summer and canned the product, which has been pronounced by epicureans to be at least the equal if not the superior of the ordinary butter or lima bean.

Dried Hahto beans cook up easier than any other variety of "soys" and have a more pleasant flavor than most of the other sorts which have been used in this way. A growing season of approximately 130 days is required to produce mature beans, while the green beans are ready for harvest at least two weeks earlier. During the current season a Michigan canning company is to test out the Hahto bean for commercial canning purposes. The department will not be able to comply with requests for seed, as arrangements have been made for the distribution of all the seed that is available among boys' and girls' garden clubs of the South, where the variety is best adapted.

A CORRECTION

In our issue of April 12th, we inadvertently omitted to mention that the article entitled, The Gardener and His Wide Field of Endeavor, by Wm. Falconer, was prepared by the National Association of Gardeners to be read and discussed at the April meeting of the various gardeners' and florists' societies throughout the country.

Obituary

James M. Buist.

James M. Buist, for nearly forty years a florist of Milford, Pa., passed away April 18th, in his 95th year. Mr. Buist was born in Scotland where he studied for the ministry. At the age of 25 he came to America. His first and only employment was with Andrew Reid, a florist. Upon Mr. Reid's death, Mr. Buist bought the business. He retired several years ago. He leaves three sons and one daughter.

Joseph A. McClunie.

Joseph A. McClunie, who has been in the florist business for over forty years, passed away at his home, 8 Park Terrace, Hartford, Ct., on April 16th, aged 66 years. He was born in Pittsfield, Mass., and entered the florist business in 1875. He had a country wide reputation as a florist and decorator, and supervised the decorations for the Harrison inauguration, also one of the Cleveland inaugural balls. He is survived by his wife and two daughters.

Robert S. McCormick.

The horticultural world at home and abroad will be interested in the announcement of the death of Robert S. McCormick. He and his brothers and sons were among the first to improve the reaping machine, and his brother Cyrus was especially prominent in that connection. The whole family reaped a fortune out of the invention. The family came from Virginia originally, Robert having been born there in Rickridge county in 1849. He died at Hinsdale, Ills., April 16th, 1919.

Mr. McCormick served three years as First Secretary of the United States Legation in London, under Minister Robert T. Lincoln.

In 1901 President McKinley appointed him Minister to Austria, to succeed Addison C. Harris, and during his service the ministry was raised to an ambassadorship. In 1903 President Roosevelt transferred Mr. McCormick to be ambassador to Russia.

Mr. McCormick aided in gaining entrance to Russia for the Associated Press, which made possible a lifting of the veil which had hid events in Russia from the rest of the world.

During the Russo-Japanese war, Mr. McCormick handled the interests of Japan in Russia.

In 1905, Mr. McCormick was promoted to be Ambassador to France,

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succeeding General Horace Porter. The Russian climate had undermined his health and in 1907 his condition caused him to retire.

Joseph C. Craig.

Joseph C. Craig passed away at his residence, 738 S. Oakley Blvd., April 17, following what was probably a second stroke of paralysis. Mr. Craig was born in Chicago 62 years ago next month and has spent all of his life here, devoting all his time, since boyhood, to the flower business. In the early days of Chicago when social events reached magnificent proportions Mr. Craig was noted as a decorator and the elaborate table decorations calling for thousands of flowers were first introduced by him. In those days the florist had for his home grown stock, tube roses, primroses, camellias and calla lilies, and for roses and carnations they had to depend upon the eastern cities. Flowers were then shipped in pails of water and the first ones packed and iced as is the present method, was done according to his direction. The first roses sold in Chicago were brought here by Mr. Craig and he may be said to be the founder of the present cut flower business here. Later he brought hybrid rose plants on one of his many visits to New York and they were grown by Stielow Bros., at Niles Center. Mr. Craig used to relate his experiences, when an order late in the

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day, meant an all night trip out to the stock. In all this Mr. Craig was creating the demand for cut flowers and much credit is due him for this. For forty-five years he has been in business in the loop district and was able to attend to business almost to the last. He leaves four sons, Joseph A., Arthur A., Raymond C. and William, all of whom are connected with the business and one daughter, Irene C. The funeral was Saturday and interment was at Mt. Carmel.

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COMMUNITY BETTERMENT.

Address by Geo. N. Smith, Wellesley, Mass., before The Gardeners' & Florists' Club of Boston, April 15, 1919.

Community betterment in its broad sense includes betterment or improvement in any and every direction that will tend to make a city, town or village more desirable as a place in which to live.

Moral improvement, religious improvement, political improvement, aesthetic improvement, etc., but when a person speaks of community or village improvement he is generally understood as meaning and probably does mean improving the outward appearance of the place. Cleaning it up—ornamenting it—making it more attractive—more pleasing to the eye. Here is a work in which we may all take part with the expenditure of very little time or effort and little or no money—it is the little things that count—little pieces of paper—little candy boxes—cigarette cases—paper bags, etc. may not amount to much taken singly but collectively strewn about the streets and door yards they make quite a disreputable looking village. It is easier to keep clean than to make clean and if none of us will throw litter on the streets there will be none to pick up. If each and every one of us will keep his own premises and the street adjoining clean and neat the trick is turned—the whole town is clean and nobody has been put to much inconvenience or expense.

When we get the town clean the next thing is to ornament it. In grading, laying out walks and driveways, there can be no set rules. We must meet conditions as we find them, but we should aim to make our grades pleasing to the eye, avoiding all sharpness. Don't make terraces with sharp angles unless absolutely necessary. They are costly to make and costly and difficult to maintain. Try to have graceful curves where there is much ascent or descent. In laying out walks and driveways remember that they are for use and not for ornament and should be as few and as direct as possible, the shortest distance between two points being a straight line. It may be argued that there is no beauty in a straight line, but in this case it has the advantage of utility, whereas I think I am safe in saying that there is neither beauty, utility nor common-sense in cutting up the grass with a lot of meaningless curves.

I do not wish to be understood as advocating absolutely straight walks or drives in all cases; far from it in most cases especially if the entrance is not directly in front of the house slight curves may be introduced to

good advantage but they should go comparatively direct from point to point so that there will be no temptation to cut across the grass. If the curves or driveways are too pronounced they are sure to be cut by the wheels of vehicles.

As I just said we do not make walks and driveways for beauty. Green grass is much more pleasing to the eye than gravel or concrete.

Now if our grading is done and our walks laid out we may consider planting trees and shrubbery. Here again, there can be no hard and fast rules, but there are a few general principles to bear in mind. It is said that the A. B. C. of landscape planting is plant in groups, avoid straight lines, keep your centers open. Plant your shrubbery along the underpinning of the house or other buildings, along the boundary lines of your lot and in the corners, don't scatter individual plants all over your lawn so that it is not evident whether you intended to have a lawn or a shrubbery. Have one or the other. Be careful not to plant so as to hide a pleasant view, but if there is an unsightly object that you wish to cover up then plant so as to hide it from view, as landscape men say "plant it out."

We can't do better than to take nature for a teacher. Of course we can't imitate nature very closely because nature uses only natural conditions and material, whereas we have to deal with the artificial. Nature has no buildings, streets, walks, driveways, clothes line yards, etc. with which to contend. Nature teaches variety. In nature there are no two scenes alike, no duplicates. We often hear the expression "as alike as two peas in a pod," but as a matter of fact there never were two peas alike. Nature never made any two things alike, so in our planting we should have no two views alike, no two beds, no two groups of shrubbery. Large growing trees should not be planted in small front yards. I have seen Norway spruces planted in front of houses which stood not more than twenty feet from the street line. Just imagine how they will look in a few years from now. I have also seen a weeping mulberry in the center of a field of several acres, which was the other extreme, and looked nearly as much out of place as the spruces in the small yards.

For best effect trees and shrubs should be allowed to grow naturally, do not trim them into regular forms and destroy the natural gracefulness and beauty which is characteristic of each tree or shrub. Each tree or shrub has a peculiarity of its own which

should be preserved and pruning should be practiced merely to assist nature in removing dead or dying wood, thinning where the head has become too thick or to cut off a straggling branch.

Two men were riding by a place where a number of evergreens were sheared into so called "fancy shapes." One remarked "That man has taste;" the other replied, "Well, if he has it is mighty poor taste."

The proper time to prune shrubs is when they are through flowering, if they are pruned in early spring as is the usual custom the flowering wood is cut away. Evergreens need very little pruning except to keep them in shape which should be done just before growth starts in the spring.

In pruning trees all cuts should be made close to and even with the trunk so that the wounds will heal over smoothly and not leave unsightly bunches. A cut made close to the trunk will heal very quickly whereas if a stub is left it will take several years to heal and in the meantime it may decay and produce a cavity extending down the tree.

Lantern slides were shown showing different ways of grading, different ways of laying out walks and driveways, the effect of trees and shrubs in beautifying places, good and bad pruning, the difference between natural and artificial landscapes; one showed the unsightly signs put up by the Metropolitan Park Commission.

NEWS NOTES.

J. G. Jack will conduct a field class at the Arnold Arboretum on Saturdays, commencing April 26th, to assist those who wish to gain a more intimate knowledge of native and foreign trees and shrubs which grow in New England. No technical knowledge is required as the instruction is simple.

NEW CORPORATIONS.

Evansville, Ind. — Lockyear Floral Co., dealers in plants and flowers, capital stock, \$25,000. Incorporators, Melvin H. Lockyear, L. E. Price and Ethel B. Price.

NOTICE.

Mr. Thos. W. Berridge is no longer connected with HORTICULTURE, all communications will hereafter be addressed to and receive prompt attention from

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SEED TRADE

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POTATO DISEASES PREVALENT. May Be Controlled by Treatment and Selection of Seed.

A number of specimens of seed potatoes with Rhizoctonia or black scurf have recently been sent in to the Ohio College of Agriculture for identification. These potatoes are nearly covered with dark brown or blackish bodies up to a quarter of an inch in size which at first appear as adhering soil particles but will not wash off. When such tubers are planted the fungous parasite in these bodies grows out and attacks the young shoots, resulting in lowered yield and a diseased crop. The parasite also gains a foothold in the soil so that future crops will be diseased.

Such diseased tubers should not be planted. Seed treatment with corrosive sublimate, however, will greatly reduce the disease. Four ounces of corrosive sublimate are dissolved in 30 gallons of water and the tubers soaked in the solution for an hour and a half. This chemical is a deadly poison and must be handled accordingly. The solution should be used in wooden vessels, as it corrodes metals. This same treatment may also be used to treat for potato scab.

Only clear, sound, healthy tubers with an unbroken skin and of fairly uniform size and regular shape should be selected as seed potatoes.

SEAWEED FURNISHES POTASH FERTILIZER.

Since the war stopped the supply of potash from Germany the Bureau of Soils of the United States Department of Agriculture has been experimenting with various processes for recovering potash from kelp, a seaweed. One of the experimental plants has been in successful operation for several months.

One of the by-products is kelp ash, which contains a potash content of

more than 33 per cent. Several carloads of this product have been placed upon the eastern markets for fertilizer purposes. A carload was recently sold to a farmers' co-operative association in New York and was found so satisfactory that another carload was bought later. A third carload of kelp ash will reach Baltimore about May 1. Anyone interested in buying kelp ash in carload lots for fertilizer purposes may secure further information from the Bureau of Soils.

SALES AND PROFITS

Paper by Hodgson Jolly, read at a meeting of the Chicago Florists' Club April 10, 1919.

Isaiah, the prophet, in directing the attention of the Hebrews to the road to success said: "And though the Lord give you the bread of adversity and the water of affliction, yet shall not thy teachers be hidden any more."

How about it in these days? Truly these are days of adversity, but the teachers are not hidden and no man need say that there is no place he can go for knowledge. Knowledge is on every hand. Is it appreciated or made use of? It does not look like it, for statistics show the average life of business less than five years and 97 out of every 100 businesses, failures. Interposing here a touch of levity, one might say that there was considerable truth in the slang epic that "Life is a doughnut. The problem is to separate the nuts from the dough." Our problem tonight is to endeavor to separate facts from fancies, as regards sales and their profits. Let us, therefore, ask ourselves—What is a sale?

According to the dictionary, a sale is "an exchange of a commodity for an agreed price." However, in modern business, a sale means quite a good deal more—"an exchange of a commodity for an agreed price" at a profit to the seller. In fact, generally speaking, the sooner it is realized by business men that there is no sale where there is no profit, the better it will be for them individually and collectively. Such a realization is not based on anything merely theoretical or academic, for only when we realize, and admit, that we are in business to make profit—profit, legitimate, profit—are we going to properly succeed. Outside of a benevolent or charitable institution, every business has to make profits, if it is going to remain in business or develop and grow as it should. We, therefore, are forced to inquire what is profit on a sale? The answer, in everyday business language, would be that profit is "the difference between the sale price and the cost price of

the article sold." This urges us to further information on the "cost price." "Cost price" or, in accounting lingo, "cost of sale," usually covers the "delivered" cost of the article or commodity sold, which would include the list price (less trade discount), plus delivery, freight and express charges. This, however, is not all of the "costs" of sale, for to the "delivered cost," has to be added the administrative or "general," as well as the "selling" expenses of the individual, partnership or corporation making the sale. Of course, it is understood that these extras to the original "delivery cost," usually termed "on costs," "burdens" or "overheads"—in other words, the cost of doing business or mark-up, cannot usually be directly applied, but are added on a percentage fractional or some such similar basis. This method or plan of distribution of the additional overhead costs or costs of doing business, does not, however, in any way, invalidate or deny the existence of these same additional classes of expense that have got to be added to the original prime "delivered" cost, before it can be said that all the items in the cost of sale have been covered. Neither does the use of any other basis of distribution alter the case, or afford any grounds to any one who wants to be honest with himself, for ignoring or disregarding such "overhead" expenses in the total of costs of sale.

To sum up, then,

(1) A sale is not a sale, unless there is profit in it.

(2) The profit in the sale is the difference between the sale price and the total of the costs in the same.

(3) The factors in the costs of sale are: (a) "Delivered" cost of article. (b) Administrative or "general" overhead. (c) Selling expense or overhead. B and C being usually termed "cost of doing business," or, "make-up."

Quoting Walter W. Hoops, a well-known advertising man: "With rare exceptions the big problem is not bigger business, but better business methods—more careful thinking and less guessing." Why is it, that 90 per cent of American merchants overbuy? Because they do not know their inventories or cost of doing business. Is it not about time you florists took this to heart, and got rid of your conceit in old-time ways and means of conducting business? How many of you can tell the percentage of sales, or cost of sales or your cost of doing business on your sales as a whole—much less on the different classes of

sales? Again, if you can, are all the factors in the cost of doing business included in yours? Perhaps you do not know that bricklayers used to bend over and pick up every brick, and that when someone suggested a platform at a convenient level for obviating the bending over, the bricklayers told him they knew their business better than he did. Notwithstanding, the adjustable platform for bricks is in use everywhere, and bricklayers now lay three to four times the number of bricks they formerly laid.

Having proceeded this far, our next step is to inquire if there are any rules to be followed and methods to be employed in our everyday business that have been found practical. Yes, there are! Many of them! But let us consider at this time some of the more fundamental of the practices, one of which is the basis for correct figuring of profits on sales.

Some advocate the cost of sale as the proper basis, others, the sales price. Let me say here that it matters little which basis you employ, so long as you follow it through correctly. Let us visualize an assumed case of merchandise sales to the amount of \$50,000.00; the cost of the merchandise sold being \$30,000.00; the gross profit or "mark-up" \$20,000.00; the cost of doing business \$10,000.00, and the net profit \$10,000.

	Percentage Sales Cost Basis	Price Basis
Merchandise sales \$50,000		100
Cost of merchandise sold. 30,000	100	60
Gross profit or "mark-up" 20,000	66 $\frac{2}{3}$	40
LESS		
Cost of doing business (selling and gen. expense) ... \$10,000	33 $\frac{1}{3}$	20
Net profit \$10,000	33 $\frac{1}{3}$	20

Always keep the basis clearly before you and do not possibly get mixed up, in the above example, and figure that the gross profit is 40 per cent, and take 40 per cent of \$30,000 or \$12,000, which, less your cost of doing business, \$10,000, would only leave a net profit of \$2,000 instead of \$10,000—a shortage of \$8,000. This shortage, of course, is equal to 40 per cent of the difference between the proper basis to which the 40 per cent applies, namely, \$50,000, and the improper basis, or \$30,000, of \$20,000, at the rate of 40 per cent equals \$8,000.

Such mistakes are not now so common, but do occur even in these days, and, as you can well imagine, with disastrous results.

As regards the cost of doing business, in the foregoing example, let me say that though it is the ordinary practice to add this to the merchandise

cost on a percentage basis, either to cost of merchandise sold or to sales price of merchandise sold, it is not technically correct practice. The underlying element in cost of doing business is time, therefore it would be proper to apply it to the average inventory, according to the length of time the merchandise was in hand. This procedure, though not by any means practicable in a great many businesses, is followed by some to very great advantage to themselves. They keep records by weeks, or by months, of the all-over or departmental inventories and expenses, pro-rating these periodic expenses to the average periodic all-over or departmental inventories. This gives them not only correct cost of merchandise, increasing, as it should, according to length of time in hand, but provides as well a valuable guide to buying.

This leads us to the interesting question of turnover. Quick turnover is better, any time, than large gross profit on slow sales. The more turnover, the smaller the margin of gross profit necessary in the merchandise sold. Turnover is usually the number of times the average inventory will go into the cost of sales for the period, though, as in the case of department stores, the merchandise sold at retail prices into the average inventory at retail prices, is correct.

The average turnover for the ordinary retailer used to be two to three times a year, which would be considered satisfactory, but, in these days, the average turnover for the retailer must run from four to eight times a year to allow him to remain in business.

In this connection, the figures compiled by the System magazine in a survey of different lines of business, may be interesting:

Grocer makes 10 turnovers a year.

Department store makes seven turnovers a year.

Druggist makes 4½ turnovers a year.

Drygoods makes four turnovers a year.

Hardware dealer makes 3½ turnovers a year.

Shoe store makes 2 1-10 turnovers a year.

Clothier makes two turnovers a year.

Jeweler makes 1½ turnovers a year.

Of course, these figures, like all other figures, are based on averages on all sizes and conditions of business in the respective trade divisions, and must be taken with considerable reservation and only treated as "average." Some grocers make 20 turnovers a year. In some department stores,

where the turnover for the store as a whole might be eight, some departments run as high as 16 in their turnovers, so kindly do not mislead yourselves into erroneous conclusions.

Turnover is a question of time, or speed. Suppose you had an article to sell for \$10,000 that cost you \$5,000 and that your cost of doing business was 20 per cent of sales per year, or \$2,000 per year, in this instance. Suppose you did not sell it for three years, even though you got full sales price for the article, you would be "in the hole" \$1,000.

Therefore, learn the essential lesson that you hold absolutely nothing in your stock rooms or business establishments for sale, that each and every day is eating up your profits—just as surely as one day follows another. As one business man puts it, "Holding stock from season to season, is the shortest road to failure." Again, the principles and practices of correct figuring of profits must necessarily have added importance in these days of income and excess profits taxes. How easy it is to fool yourself in the computation of your net profits, and to find yourself paying more taxes than you are required to pay—or perhaps less taxes than you should, which is even a more dangerous eventuality than the other. The other day in helping out a merchant with his income tax, I found he had been depreciating his assets on the depreciated balance basis for years back, but had not been employing the correct method, so that when we readjusted figures, his taxable net income was \$1,000 less. This occurred in a small business. Think of the possibilities in a large one.

We could continue at great length on illustrations and examples of the paramount necessity for accurate figures in every line of business, and how can you possibly get accurate figures except through correct accounting—correct both in principles and methods? Scientific accounting is the essence of horse-sense, properly applied to the varying conditions met with in modern business. In your particular line of business—flower growing, wholesaling and retailing—you have just as urgent a call for improvement as in any other line of business—more so even. Therefore, it certainly behooves you to get together and commence as soon as possible the construction of a definite continuous programme of activities covering the investigation and determination of your costs, sales, methods, ethics and policies, affecting the different divisions of the florists' business, as so many other trades have done.

LOCAL AND GENERAL NEWS

PHILADELPHIA.

Harry L. Bates succeeds R. C. Fontaine as head of the Philadelphia branch of the Lord and Burnham Co. Mr. Bates was previously with the Rochester branch of the company. Mr. Fontaine goes to Irvington—which is now the headquarters, instead of N. Y. City, as in days gone by. Dennis T. Connor remains chief assistant in the Philadelphia office, and both he and Mr. Bates are old-timers together; and are making things hum.

We have had a pleasant visit this week from Robert Miller, who made a mark for himself in his younger days in the horticultural world in Boston, New York, Washington and other eastern centers, and who is now a leading figure in Western development along the same lines, being located for the past nine years in Salt Lake City and having built up a fine organization in the growing and flower store ends of the business. He showed himself wide-awake for new ideas and very little escaped him from Battles to Riverton. He was quite refreshing in his enthusiasm. If we were all Robert Millers we would have less need for Henry Penns. This is the first time we have taken our hats off to a Mormon.

CHICAGO NOTES.

The Civil Service Board of the West Chicago Park Commissioners will hold the following examination on the dates and at the places given below. Application blanks may be obtained at the office of the Board in Union Park or at the West Park playgrounds.

Examination No. 399.

Gardener, Class G, Rank II, Division Z. Original Entrance. Pay, 37½c. to 50c. per hour. To be held April 30th, 1919, at 9.00 a. m., at the Garfield Park Pavilion. Open to men 21 years of age or over, regardless of residence. Applications must be filed in the office of the Board in Union Park before 5.00 p. m. of April 29, 1919. Subjects: Special Subject, weight of 6; Experience, weight of 3; Physical, weight of 1. Special Subject: To include a test identification, general care and planting and characteristics of trees, shrubs and perennials, and on making and maintaining lawns.

The duties of Gardener include the planting, pruning and general care of trees, shrubs, perennials, lawns and

outside gardens, and occasional supervision of laborers in related work.

A CORRECTION.

On page 370 of the current issue of your publication, you mention in the first leading article in reference to the Massachusetts Horticultural Society's Orchid Show that "this will bring it three days after the closing of the S. A. F. flower show in New York."

As the show which is to be held in New York next Spring is the International Flower Show usually held by the New York Florists' Club in connection with the Horticultural Society of New York, I wish you would make proper correction in your next issue. The S. A. F. flower show is the national flower show held by the Society of American Florists at intervals of two years or more, consequently, reference to the other show as such, might be confusing to some people.

JOHN YOUNG, Secy.

POLYANTHA ROSES AS BEDDING PLANTS.

These charming roses are becoming more popular as their undoubted merits are known. In these days of shortage of labor, when bedding plants are difficult to rear, what can be more acceptable than these delightful decorative roses? Even if one could obtain bedding plants I question if those who have tried Polyantha Roses will ever wish to return to the old and expensive plan of annual bedding with geraniums, etc., when more effective and permanent material is at hand. One has only to view beds of Orleans rose, Jessie, Mrs. Cutbush and others after a heavy rain to at once see their far superior effect to beds of Zonal geraniums; and they also provide the grower with ample material for table decorations where the geranium would not be so useful or lasting.

Undoubtedly the best mode of culture is to prune down hard each spring—then one obtains more uniform growth and finer trusses of blossom; although should it be desired to have large bushes, this is quite practicable by non-pruning. I have bushes of some kinds that are never pruned, and they are fully 4 feet high and as much in width.

In preparing the bed it is well to dig the soil deeply and enrich it with manure as much as one would for the choicer roses. A distance apart of 15 inches to 18 inches each way ensures

an even mass of blossoms, although 2 feet apart may be allowed if Violas or other carpet plants are to be planted beneath. A few half-standards of the same or contrasting variety look extremely well, while quite dwarf standards, with about a 15-inch stem, make effective displays with low bedding plants beneath. Perhaps it would be advisable to replant the Polyantha roses triennially, especially if the soil be none too good. This ensures a vigorous, healthy condition of the plants, and thus treated they will last for years.

Varieties are very numerous. For bedding purposes I would strongly advise one color only in a bed. There are practically two distinct types of Polyantha roses, one favoring the Multiflora ramblers in their dense clusters of blossom, the other having trusses much after the style of Hybrid Tea Roses. The former are the best for bedding. Of brilliant reds and scarlets, Jessie, Triomphe Orléanaise and Merveille des Rouges are the best. Erna Teschendorff is a fine rich crimson, but rather inclined to mildew. Of deep rose pinks, Orleans stands pre-eminently the grandest, but Aennchen Muller and its deeper sport, Frau E. Kreis, are very fine. A lovely variety of cherry rose color is Ellen Poulsen, and it possesses a sweet fragrance. Of lighter pinks, Mrs. Cutbush and Perle Orléanaise are splendid while of the blush pinks, Edward VII., Jeanny Soupert, Aschenbrodel and Louise Walter are really excellent. Pure whites are found in Katherine Zeimet, Jeannette d'Arc and Little Meg, this latter possessing a most exquisitely shaped bud. Of yellows we are still waiting their advent; that is, in the big cluster section. Perhaps the nearest is the pinkish yellow Eugenie Lamesch with its Violet-like perfume, while Perle d'Or makes a fairly good show. Tiny Tim will be a real gem. It is pinkish orange in hue and quite attractive, with buds shaped like Perle d'Or.

Perhaps some of my readers may desire to plant these roses as edgings to rose beds or walks and drives; if so, all the above named are good; while to those who would desire a collection to be planted together in a border, in addition to the above I strongly recommend Cecile Brunner, Frau C. Walter, Leonie Lamesch, George Elger, Miere and Susie. There are others extremely pretty, and a complete collection would add a distinct charm to any garden.—*The Garden.*

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Reliable Service.

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Connecticut Ave. and L St.
WASHINGTON, D. C.

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QUALITY, SERVICE, FAIR PRICES

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Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

- Albany, N. Y.—The Rosery, 23 Steuben St.
Albany, N. Y.—Danker.
- Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn the Florist, 124 Tremont St.
Brooklyn, N. Y.—Wilson, 3-5 Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Cambridge, Mass.—John McKenzie, 1927
Mass. Ave.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid
Ave.
Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.
Cleveland, O.—Knoble Bros., 1836 W. 25th
St.
Cleveland, O.—The Smith & Feters Co.,
735 Euclid Ave.
Denver, Col.—Park Floral Co., 1643
Broadway.
Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.
East Orange, N. J.—Smith, The Florist.
Fall River, Mass.—Warburton, 495 New
Boston Rd. and 36 N. Main St.
Fishkill, N. Y.—Wood Bros.
Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.
New York—David Clarke's Sons, 2139-
2141 Broadway.
New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.
New York—Dards, N. E. corner 44th St.
and Madison Ave.
New York—G. E. M. Stumpp, 761 Fifth
Ave.
New York—Kottmiller, 426 Madison Ave.
and 49th St., also Vanderbilt Hotel.
Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.
Philadelphia—F. M. Ross, 136 So. 52nd
St., 13 So. 60th St., 212 E. Girard Ave.
Philadelphia—Chas. H. Grakelow, Broad
St. at Cumberland.
Providence, R. I.—Johnston Bros., 38
Dorrance St.
Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave. N.
St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. B. Pler-
son Co.
Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.
Washington, D. C.—Gude Bros., 1214 F
St.
Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.
Worcester, Mass.—Randall's Flower Shop,
22 Pearl St.
New York—Thos. F. Galvin, Fifth Ave.,
at 46th St.

NEW FLOWER STORES.

- Cuero, Tex.—E. L. Shestag.
Austin, Ill.—Henry Shaefer, Chicago
avenue.
Franklin, Pa.—Whitney & Kendrick,
succeeding Bell Floral Co.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good
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GUDE BROS. CO.

WASHINGTON, D. C.

Member Florists Telegraph Delivery

WILSON BROOKLYN

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Member Florists' Telegraph Delivery Asso.
Phones, Prospect 6800-6801-6802

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A. T. BUNYARD NEW YORK

413 Madison Ave. at 48th Street
I GUARANTEE SATISFACTION
MEMBER F. T. D. A.

THE ROSERY 23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

G. E. M. STUMPP 761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

DANKER

Albany, New York

The best of F. T. D. Service always

A Card This Size

Costs only 90c. per Week
on Yearly Order

It would keep your name and your
specialty before the whole trade.

A half-inch card costs only 45c. per
week on yearly order.

CHICAGO

Send Your Orders to

WILLIAM J.**SMYTH**Member Florists' Telegraph
Delivery Association**Michigan Ave. at 31st Street**Prompt Auto Delivery
Service**WORCESTER, MASS.****Randall's Flower Shop****HARRY L. RANDALL, Proprietor.**

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S. A. ANDERSON**440 Main St., Buffalo, N. Y.**ANDERSON service means fresh, sturdy
stock and prompt deliveries in **BUFFALO,**
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK.

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THOS. F. GALVIN
INC.**NEW YORK** 561 Fifth Ave.
Vanderbilt Hotel**BOSTON** 1 Park Street
799 Boylston Street

Deliveries to Steamers and all Eastern Ports

KNOBLE BROTHERS

Member Florists' Telegraph Delivery

We are well equipped to handle
your orders.

1836 W. 25th Street CLEVELAND, O.

THE SMITH & FETTERS CO.**735 Euclid Avenue****CLEVELAND, OHIO**

Flowers of Every Kind in Season

CLEVELAND**A. GRAHAM & SON****5523 Euclid Ave.**

Will take good care of your orders

Members of F. T. D. Association.

Retail Deliveriesto central Hudson River points, on
Telegraphic Order.**WOOD BROS.****FISHKILL, N. Y.****HIGH GRADE PLANTS**

For Retail Stores a Specialty

ASK FOR LIST

THOMAS ROLAND, Nahant, Mass**FLOWERS**The Best at
The Lowest**"I SERVE"**The Largest Popular Priced House in
Philadelphia**F. M. ROSS**

Send orders to

136 So. 52nd Street, Philadelphia.

Other Stores

13 So. 60th St., 212 E. Girard Avenue

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Member Florists' Telegraph Delivery

Quality and Reliability**WARBURTON****FALL RIVER, MASS.**Deliveries of Flowers and Plants
in **FALL RIVER** and contiguous
territory.**EAST ORANGE, N. J.****SMITH, The Florist**We deliver by automobile in East, West
and South Orange, also Glen Ridge, Mont-
clair, Bloomfield, Newark and New York.**CHICAGO**Mrs. Allie Zech is home again after
several weeks' stay at the hospital,
where she underwent a severe op-
eration.Geo. Wienboeber reports the first
aeroplane delivery, made to the south
side, April 21st. The flowers were
carried in fine shape, but George has
not yet announced permanent delivery
arrangements of that kind.The rule for Sunday closing in the
wholesale market was not observed by
all this Easter, the houses keeping
open in the forenoon finding it neces-
sary because of the unusual Easter
conditions. Four days of rain brought
a week's work, to be done in two days.**ST. LOUIS, MO.****FRED C. WEBER****4326-28 Olive St.**

Member Florists' Telegraph Delivery Association

NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,**CLEVELAND****Euclid Avenue****The Far-Famed Flowers of****TORONTO**Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.**JOHN H. DUNLOP**

8-10 West Adelaide St. - TORONTO, ONT

HESS & SWOBODA**FLORISTS**

Telephones 1501 and L 1532

1415 Farnum St.**OMAHA, NEB.****Efficient Delivery
Service**

ALL BOSTON SUBURBS

JOHN MCKENZIE

1927 Mass. Ave., CAMBRIDGE, MASS.

PHILADELPHIA**CHAS. H. GRAKELOW F. T. D.**

Everything in Flowers

Broad Street at Cumberland**The Park Floral Co.****B. E. GILLIS, President.****E. P. NEIMAN, Secretary.**

Member Florists' Telegraph Delivery

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ROSE PLANTS

OPHELIA DOUBLE WHITE KILLARNEY

2½-inch pots, \$90.00 per 1000.. Fine stock, cuttings made from two and three eye cuttings.

THE LEO NIESSEN CO.

1201 Race Street, PHILADELPHIA, PA.

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$5.25 50,000...\$9.75 Sample free.
For sale by dealers.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

E. G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

The House for Quality and Service

ZECH & MANN

We are Wholesale Florists Doing
a Strictly Wholesale Business

30 East Randolph Street, CHICAGO

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

TRY

Horticulture's Advertisers FIRST

Before Looking Elsewhere

Tell Them You Did So And
They'll Reciprocate

IF You Want Anything from Boston Get It
From Henry M. Robinson & Co.

For Safety Place Your Orders With Us

HENRY M. ROBINSON & CO.

2 Winthrop Square and 32 Otis Street, BOSTON, MASS.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Apr. 23		ST. LOUIS Apr. 21		PHILA. Apr. 21	
Roses						
Am Beauty, Special	25.00	to 50.00	50.00	to 60.00	15.00	to 75.00
" " Fancy and Extra	12.00	to 20.00	25.00	to 40.00	50.00	to 60.00
" " No. 1 and culls	9.00	to 4.00	5.00	to 15.00	15.00	to 40.00
Russell, Hadley	18.00	to 15.00	6.00	to 35.00	10.00	to 30.00
Killarney, Ward	2.00	to 8.00	6.00	to 12.00	3.00	to 10.00
Radiance, Taft, Key	2.00	to 8.00	3.00	to 8.00	6.00	to 15.00
Ophelia, Sunburst	4.00	to 12.00	6.00	to 12.00	4.00	to 12.00
Carnations	2.00	to 4.00	3.00	to 6.00	6.00	to 8.00
Cattleyas	100.00	to 150.00	60.00	to 75.00	100.00	to 150.00
Lilies, Longiflorum	20.00	to 25.00	20.00	to 25.00	20.00	to 25.00
Lilies, Speciosum	8.00	to 20.00	.....	to .....	.....	to
Callas	20.00	to 25.00	15.00	to 20.00	20.00	to 25.00
Iris	8.00	to 10.00	8.00	to 10.00	12.00	to 20.00
Lily of the Valley	8.00	to 10.00	8.00	to .....	.....	to
Snapdragon	8.00	to 20.00	2.00	to 6.00	8.00	to 15.00
Pansies	1.00	to 2.00	.....	to	5.00	to 8.00
Daffodils	6.00	to 8.00	5.00	to 6.00	6.00	to 8.00
Calendula	2.00	to 4.00	2.00	to 5.00	4.00	to 6.00
Stocks	.....	to	5.00	to 8.00	.....	to
Wallflowers	.....	to .....	.....	to .....	.....	to
Mignonette	2.00	to 6.00	3.00	to 4.00	4.00	to 6.00
Sweet Peas	1.00	to 3.00	.50	to 1.25	1.00	to 3.00
Violets	.75	to 1.00	.35	to 1.00	1.00	to 1.50
Marguerites	3.00	to 5.00	1.50	to 2.00	.75	to 1.50
Gardenias	25.00	to 35.00	.....	to	40.00	to 50.00
Adiantum	1.00	to 1.50	1.00	to 1.50	1.00	to 2.00
Gladioli	16.00	to 25.00	12.00	to 40.00	.....	to
Asparagus Plumosus, & Spreng. (100 Bchs.)	35.00	to 50.00	35.00	to 100.00	60.00	to 75.00

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

Wholesale Growers of Cut Flowers

ROSES, CARNATIONS

AND ALL OTHER SEASONABLE STOCK

Shipping orders have most careful attention always

WILLIAM F. KASTING Co.

Wholesale Florists

568-570 WASHINGTON STREET - BUFFALO, N. Y.

PINO-LYPTOL

WEED KILLER

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS, TENNIS COURTS, DRIVEWAYS, ETC.

This fluid destroys weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

PINO-LYPTOL CHEMICAL CO., 507-509 W. 19th St., New York
CORRESPONDENCE SOLICITED.

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STANDARD

INSECTICIDE

Save your plants and trees. Just the thing for greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrips, Red Spider, Black and Green Fly, Mites, Ants, etc., without injury to plants and without odor. Used according to direction, our standard insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

½ Pint, 30c.; Pint, 50c.; Quart, 90c.; ½ Gallon, \$1.50; Gallon, \$2.50; 5 Gallon Can, \$10.50; 10 Gallon Can, \$20.00. Directions on package.

LEMON OIL COMPANY

Dept. S. 420 W. Lexington St., Baltimore, Md.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Apr. 21		CHICAGO Apr. 21		BUFFALO Apr. 21		PITTSBURG Apr. 21	
Roses								
Am. Beauty, Special	50.00	to 75.00	40.00	to 60.00	50.00	to 60.00	60.00	to 75.00
" " Fancy and Extra	30.00	to 40.00	30.00	to 40.00	30.00	to 40.00	50.00	to 75.00
" " No. 1 and culls	12.00	to 25.00	10.00	to 25.00	5.00	to 10.00	8.00	to 35.00
Russell, Hadley	10.00	to 35.00	6.00	to 25.00	6.00	to 25.00	8.00	to 15.00
Killarney, Ward	10.00	to 30.00	6.00	to 12.00	4.00	to 15.00	6.00	to 15.00
Radiance, Taft, Key	10.00	to 35.00	5.00	to 25.00	5.00	to 15.00	6.00	to 15.00
Ophelia, Sunburst	10.00	to 35.00	6.00	to 15.00	6.00	to 20.00	8.00	to 20.00
Carnations	6.00	to 8.00	3.00	to 6.00	4.00	to 8.00	8.00	to 10.00
Cattleyas	60.00	to 75.00	35.00	to 60.00	75.00	to 85.00	75.00	to 110.00
Lilies, Longiflorum	15.00	to 20.00	20.00	to 30.00	20.00	to 25.00	15.00	to 25.00
Lilies, Speciosum	10.00	to 15.00	10.00	to 15.00	10.00	to 15.00	10.00	to 15.00
Callas	10.00	to 15.00	10.00	to 15.00	10.00	to 15.00	10.00	to 15.00
Iris	15.00	to 20.00	2.00	to 4.00	10.00	to 12.00	10.00	to 12.00
Lily of the Valley	4.00	to 8.00	5.00	to 6.00	8.00	to 10.00	10.00	to 12.00
Snaptadragon	10.00	to 15.00	10.00	to 15.00	5.00	to 20.00	4.00	to 8.00
Pansies	1.00	to 1.50	1.00	to 2.00	.50	to 1.00	1.00	to 4.00
Daffodils	2.00	to 4.00	3.00	to 6.00	4.00	to 6.00	2.00	to 4.00
Calendula	2.00	to 3.00	3.00	to 6.00	3.00	to 6.00	3.00	to 4.00
Stocks	6.00	to 8.00	6.00	to 12.00	2.00	to 5.00	10.00	to 12.00
Wallflowers	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00
Mignonette	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00
Sweet Peas	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00
Violets	1.00	to 2.00	1.00	to 2.00	.75	to 1.00	.75	to 1.00
Marguerites	2.00	to 3.00	1.00	to 2.00	1.00	to 2.00	3.00	to 4.00
Gardenias	2.00	to 3.00	2.00	to 3.00	2.00	to 3.00	2.00	to 3.00
Adiantum	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00
Gladioli	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00
Asparagus Plu. & Sprea. (100 Bhs.)	25.00	to 50.00	50.00	to 100.00	35.00	to 50.00	40.00	to 60.00

Flower Market Reports

Despite the telephone BOSTON tie-up and the day before Easter a holiday in Boston, the wholesalers all agree that Easter business far exceeded last year, when reports showed a wonderful business. Shipping trade began early in the week and vast quantities of stock were moved. The plant trade was unusually brisk. The few potted lilies in the market were not up to usual standard and the public understanding the shortage were satisfied to substitute with a wonderful variety to choose from,—rambler roses, bougainvilleas, hydrangeas, azaleas, tulips, narcissi, hyacinths, rhododendrons, lilacs, heathers, etc. There were plenty of cut flowers and everything sold at good prices.

The condition of the market three days after Easter presents a big supply of stock. The usual reaction after a holiday set in and prices have dropped on everything. American Beauties and Russells are particularly fine, and in big consignments. There are plenty of Killarney, Radiance, Ward and Ophelia roses at this writing. Carnations, callas, daffodils and sweet peas are also plentiful.

As an after word
PHILADELPHIA to our last week's
Easter report all

the earlier indications of a big demand and short supplies were fully borne out. By noon on Friday orders from the South and West were being turned down right and left and by Saturday night there was hardly an item at all salable but what was cleaned up. About the only item to be seen Monday morning among the left-overs was our old stand-by the Easter lily. Thirty-five cents a flower, asked, was certainly an atrocious price and it is no wonder a good many were left. These of course were not very good and probably went to the waste basket. One of the scarcest items was the carnation. It soared in many cases to as high as fifteen cents. In roses the supply was more equal to the demand and although they brought good prices there was no great howl among the buyers in that connection and everybody seemed to be well satisfied. Sweet peas were in splendid form and plentiful. What the medium priced stores would have done without loads of these is hard to say. Cattleyas were scarcer even than expected and good flowers were hard to get even at one fifty. Taking it all in all—one of the best Easters on record.

Easter business from
ST LOUIS reports was appreciated by all branches of the trade, growers, wholesalers and retailers. Carnations and roses were absolutely scarce and commanded high prices. Sweet peas came in by the thousands but were quickly sold out. A few violets brought fair prices. Lilies were scarce. All good plants sold, also cut flower stock; anything of good quality showed demand.

Easter business
CINCINNATI came up to expectations, and as a result everything in the market sold readily. A great deal more stock would have sold if we had had it. Roses were only fairly plentiful and ran short; carnations too ran short of actual needs; sweet peas, however, were in a good supply, still more of them could have been used if we had had them. All Easter lilies, callas and rubrum lilies cleaned up quickly and receipts in these lines were far from an amount sufficient to take care of all demands for them. Bulbous stock proved a negligible quantity; other offerings were: orchids, lily of the valley, snapdragon, pansies, wall flower, mignonette and forget-me-not.

(Continued on page 409)

H. E. FROMENT
Wholesale Commission Florist
Choice Cut Flowers
New Address, 143 West 28th St., NEW YORK
Telephones: 2280, 2291, Madison Square.

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Telephone 5335, Farragut.
Call and inspect the Best Establishment
in the Wholesale Flower District.

JOHN YOUNG & CO.
WHOLESALE FLORISTS
53 WEST 28th STREET NEW YORK CITY
Consignments Solicited
Phone Farragut 4336

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—2645-2632 Madison Square

RIEDEL & MEYER, Inc.
Wholesale Commission
READY FOR BUSINESS
49 WEST 28th ST. NEW YORK.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENTS SOLICITED
PHONE 608 (FARRAGUT) NEW YORK

THE KERVAN CO
Fresh Cut Decorative Evergreens.
Highest Standard of Quality. Largest
Stock in America. Write for Illustrated
Catalog of Greens and Florists' Supplies
119 W. 28th St., - - NEW YORK

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
* First Class Market for all CUT FLOWERS
* Willoughby St. Brooklyn, N. Y.

M. C. FORD
121 West 28th St., NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone 2870 Farragut.



J. K. ALLEN
"A LEADER IN THE WHOLESALE COMMISSION TRADE FOR OVER THIRTY YEARS"
ROSES! I WANT ROSES!
Have a demand for more than I can supply. Rose Growers Call or Write.
118 West 28th St. NEW YORK TELEPHONES
Farragut 167 and 2446

J. J. COAN, Inc. Wholesale Florist
116 West 28th Street, NEW YORK
Phones: Everything in Cut Flowers
Farragut 5413 and 5891

HENRY M. ROBINSON CO. OF NEW YORK
WHOLESALE FLORISTS
55-57 West 26th Street
Telephones, 13-2510 Madison Square Consignments Solicited
MAURICE L. GLASS, Treasurer

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Part of Week ending Apr. 19 1919		First Part of Week beginning Apr. 21 1919	
American Beauty, Special	75.00	to 125.00	35.00	to 75.00
" " Fancy and Extra	25.00	to 75.00	20.00	to 30.00
" " No. 1 and culls.	5.00	to 30.00	3.00	to 15.00
Russell, Hadley	8.00	to 75.00	4.00	to 50.00
Killarney, Ward	4.00	to 15.00	4.00	to 10.00
Radiance, Taft, Key	5.00	to 35.00	4.00	to 20.00
Ophelia, Sunburst	5.00	to 30.00	3.00	to 15.00
Carnations	8.00	to 15.00	5.00	to 8.00
Cattleyas	50.00	to 150.00	50.00	to 100.00

WE WANT MORE SHIPPERS
We have a numerous clientele of New York City buyers and the demand exceeds our supply. This is especially true of Roses. We have every facility and abundant means and best returns are assured for stock consigned to us.
Address Your Shipments to
UNITED CUT FLOWER CO. Inc.
111 W. 28th St., NEW YORK D. J. Pappas, Pres.

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Boston Floral Supply Co.
347-357 Cambridge St., Boston
SHOW ROOMS, 15 Otis Street and
96 Arch Street
Headquarters for
CYCAS, BASKETS, WIRE DESIGNS
and WAX FLOWERS

A Card This Size
Costs only 90c. per Week
on Yearly Order
It would keep your name and your
specialty before the whole trade.
A half-inch card costs only 45c. per
week on yearly order.

ROBERT DYSART
CERTIFIED PUBLIC ACCOUNTANT
Simple methods of correct accounting
especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
40 STATE STREET . . BOSTON
Telephone Main 55

When writing Advertisers kindly mention Horticulture

Flower Market Reports

(Continued from page 407)

Easter is over and for CHICAGO once every one of the wholesalers seems satisfied. Even the four days of rain are forgotten, for the sun shone at the end of the week and the retailers were out in full force, making sure of their Easter stock. The early days of the week had taken care of the shipping trade which was very heavy, and stock could be handled very satisfactorily on account of the cool weather. It is a question whether a loss could have been avoided in handling such a vast quantity of flowers had the thermometer stood high, for ice boxes would not hold it and the counters also were well filled. The supply of roses, while very large, was not too great for the demand and covered all the varieties of the season. Prices held firm and in some cases it is reported that an advance was made over quotations. Very few roses if any came from the east this year. Of carnations the supply seemed very large at first, but when the buyers came they left nothing and Saturday night found the market comparatively cleaned up of these. There were but a few violets, and orchids took their places in corsage work. As had been widely advertised, the supply of cut Easter lilies was very limited and the 25 and 35 cents per bloom looked large to purchasers who bought to sell again at practically the same price. Miscellaneous stock was quite large but all sold at high prices. The retailers generally report a good day, and while the high prices kept away some customers, all their stock sold and Monday many were ready for the

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Part of Week ending Apr. 19 1919	First Part of Week beginning Apr. 21 1919
Lilies, Longiflorum.....	25.00 to 35.00	12.00 to 15.00
Lilies, Speciosum.....	..... to .....	..... to
Callas.....	25.00 to 40.00	15.00 to 20.00
Iris.....	8.00 to 12.00	6.00 to 12.00
Lily of the Valley.....	5.00 to 10.00	5.00 to 8.00
Snapdragon.....	5.00 to 13.00	3.10 to 8.00
Pansies.....	1.00 to 1.50	1.00 to 1.50
Daffodils.....	6.00 to 8.00	5.00 to 6.00
Calendula.....	3.00 to 6.00	2.00 to 4.00
Stocks.....	3.00 to 5.00	3.00 to 6.00
Wallflowers.....	..... to .....	..... to
Mignonette.....	2.00 to 6.00	2.00 to 5.00
Sweet Peas.....	2.00 to 5.00	1.00 to 3.00
Violets.....	1.50 to 3.00	.75 to 1.50
Marguerites.....	1.00 to 3.00	1.00 to 3.00
Gardenias.....	10.00 to 35.00	8.00 to 35.00
Adiantum.....	1.00 to 1.25	.75 to 1.25
Gladioli.....	8.00 to 15.00	6.00 to 12.00
Asparagus Plumosus, & Spreng (100 bunches).....	15.00 to 35.00	15.00 to 35.00

market again. On the whole, the Easter of 1919 was one of the best the trade in general has ever known.

Easter business was
NEW YORK good and prices ruled high. The supply of

roses was only moderate and was cleaned up except for some long stuff. The shorter sizes sold best. Some of the stock left included Beauties, Russells and Ophelias, all top-grade stock, for which the call was limited to a few of the best retail houses. Generally speaking, all roses found sale at excellent prices; the quality and condition was uniformly good. Carnations went with a snap in the morning but not so well at night. The contrary was true of violets; they sold better at night and brought record prices for stock that was not really good. Cattleyas did well, fetching in some cases \$1.50 each. Gardenias and peas had a good call. Anything usually worn for corsages sold well. Lilies, longiflorum, were more in evidence Saturday night than for weeks previous, there was a market for all of them at a decent figure and where they were left it was because of late shipments, too close, or too high price asked. Callas cleaned up fairly well at record prices also. Such stock as snapdragon, daisies, mignonette, delphinium, etc., did only fairly well, much stock carrying over unsold. On the whole it was a satisfactory Easter from the wholesale standpoint. Jonquils and tulips sold well. Smilax only in small demand. Asparagus went better. Business has quieted down considerably, supply increasing daily with the warm sunshine weather and a decided drop in prices. Stock is accumulating. Lilac from the south is in the market. The week opened with very little demand, many retailers having carried over stock on hand.

GREENHOUSES BUILDING OR CONTEMPLATED

Fort Dodge, Ia.—R. P. Atwell, one house.

Racine, Wis.—R. A. Brux, show house, 29 x 64.

Spokane, Wash.—H. L. Olson Co., vegetable house.

Oelwein, Ia.—Kemble's Flowers, carnation house 34 x 107.

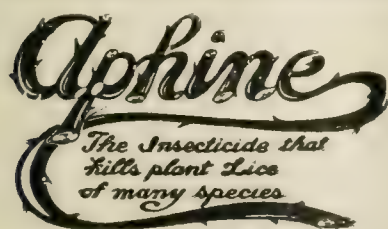
Hartford, Ct.—Daniel Pollotti, 24 Benton street, one house.

Mishawaka, Ind.—C. L. Powell, 1215 Margaret street, one house.

Ithaca, N. Y.—Antonio Salerno, 637 Elizabeth street, one house.



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For eel worms, angle worms and other worms working in the soil.

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PUBLICATIONS RECEIVED.

It has frequently occurred to us that a large majority of horticulturists have but little knowledge of the bird life so varied and abundant that surrounds them, do not realize their value to those engaged in the outdoor cultivation and propagation of trees, shrubs and plants and from lack of knowledge of the many species which are on every hand, their life and habits, have given that beautiful and interesting part of animated nature but little attention in observation and study. Unquestionably a great deal that has been written in late years has not been of a nature that was instructive. Studies of the shading or color variations of feather, in an effort to form a new sub-species and give it a name, the difference in millimeters of the dimensions of leg, wing of feather, or descriptions in terms not understood by those not possessed of a liberal education, has been a great factor that has stood in the way of a more general knowledge of the bird. The life history has in a great measure been ignored, and it could hardly be expected that a new work would appeal to any who had found that his previous readings were chill and uninteresting and offering no inducement for a study of the life and habits of the most common birds about them. We have often found those interested in horticulture as naturally might be expected, quick to see and appreciate the fascinating study of animated nature, needing but little prompting to associate it with their study or profession.

We are pleased to receive from the publishers (The Page Company, Boston) a copy of new book entitled "Birds of Field, Forest and Park" by Albert Fred Gilmore, which is at once well written and attractive and should be in the hands of every one who delights in outdoor studies. When we say it is illustrated by Lewis Fuertes in colors and R. Bruce Nourse in their best form, it is unnecessary to enlarge upon its excellence. Price \$2.50 net.

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WIRE WORK

WILLIAM E. HEILSCHER'S WIRE WORKS, 264 Randolph St., Detroit, Mich.

PRUNING RAMBLER ROSES WITH HEDGING SHEARS.

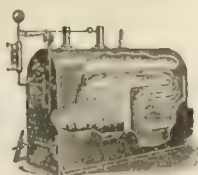
If there is one thing which I loathe more than any other in the work of a garden, it is the cutting out and tying up of Rambler roses. All the thorny growths have to be laid clear of the supports, the old wood cut away, and the new tied in place. When cutting away the old wood I invariably cut some piece which has sent out at the top a beautiful new rod. Too late I see this piece and hasten to secrete it. Now all this vexatious and annoying work is done away with. I go into the tool-shed, procure the hedging shears, and proceed to lop back those roses just as I would a hedge. It does not matter whether the growth is new or old; off it comes. In a very short time I have the bottom of the ladder strewn with a tangled mass of what would have been blooming wood. As a rosarian my soul would have shrieked aloud at such desecration at one time; now I simply cart the debris to the bonfire without turning a hair. Why? Simply because I have found that all this tedious cutting out and tying up is not necessary. Blooms are produced in abundance on the roses cut back in this way. It is true that after the operation the roses look as if they would never bloom again. I learned this "tip" by accident. Near my house there was a particularly fine specimen of a weeping Dorothy Perkins. In its season it was simply weighed down with blooms. The following spring I chanced to look at that rose, and found that its owner had cut the head back to about a foot of wood—new and old wood was all treated alike. I watched that rose with interest during the time when it should bloom. There, sure enough, it was, a pink billowy mass. From that day I have adopted the same tactics, and always get an abundance of bloom.—Clarence Pointing, in The Garden.

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HORTICULTURE

Vol. XXIX

MAY 3, 1919

No. 18

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Extra	15.00
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Awarded silver medal by the Horticultural Society of New York.

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NEW CROP, CLEANED, LATH-HOUSE GROWN. NOW READY TO SHIP.

1,000 or more seeds.....	\$2.00 per 1,000	25,000 or more seeds.....	\$1.40 per 1,000
5,000 or more seeds.....	1.75 "	50,000 or more seeds.....	1.30 "
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LIST OF ADVERTISERS

Page	Page	Page	Page	Page
Advance Co.....435	Cooke, Geo. H.....428	Hess & Swoboda.....429	Michigan Cut Flower Ex.....430	Reed & Keller.....432
Allen, J. K.....432	Conard & Jones.....416	Hews & Co., A. H.....434	Murray, Samuel.....428-436	Reidel & Meyer.....432
American Bulb Co.....414	Cowee, W. J.....430	Hill Co., E. G.....430		Reid, Edw.....430
American Forestry Co.....420	Craig Co., Robt.....415	Hill, D. Nursery Co.....423		Reuter, L. J. Co.....416
Anderson, S. A.....429	Danker.....428	Howard, W. D.....423		Rice & Co., Jerome B.....414
Aphine Mfg. Co.....433	Dards.....428	Irwin, R. J.....414		Robinson, Henry M. Co.....432
Barrows, H. H.....416	Dreer, H. A.....434-435	Johnston Bros.....428		Robinson, H. M. & Co.....430
Bay State Nursery.....415	Dunlop, John H.....429			Roehrs, J. Co.....416
Bobbink & Atkins.....415	Dysart, R.....432	Kasting, W. F. Co.....430		Roland, Thomas.....429
Boddington Co., Inc., A. T.....425	Edwards Folding Box Co.....430	Kelway & Son.....414		Ross, F. M.....429
Bolgiano & Son.....414	Elm City Nursery series.....423	Kervan Co.....432		Sheridan, W. F.....432
Boston Floral Supply Co.....432	Farquhar, R. & J. Co.....414	Knoble Bros.....435		Siebrecht, Geo. C.....432
Breck, J. & Sons.....414	Fengar, E. W.....415	Kroeschell Bros.....435		Siggers & Siggers.....435
Breitmeyers, J. Sons.....428	Ford, M. C.....432	Kuebler, W. H.....432		Skidelsky, S. S. & Co.....414
Budlong, J. A.....430	Ford, W. P.....432	Kottmiller.....428		Smith, Elmer D. & Co.....416
Bunyard, A. T.....428	Froment, H. E.....432	Lager & Hurrell.....416		Smith, W. & T. Nursery Co.....423
Burnett Bros.....414	Galvin, Thos. F.....429	Lemon Oil Co.....431		Smith, The Florist.....428
Burpee, W. A. & Co.....414	Gasser Co., J. M.....429	Liggit, C. U.....416		Smith & Fettes Co.....429
Carter's Tested Seeds, Inc.....414	Graham & Son, A.....429	McCarthy & Co., N. F.....423		Smyth, Wm. J.....429
Childs, John Lewis.....423	Grakelow, Chas. H.....429	McHutchison Co.....415-416		Stumpp, G. E. M.....428
Clarke, D. Sons.....428	Grey & Co., T. J.....414	Marshall, W. E. & Co.....414		
Coan, J. J.....432	Gude Bros. Co.....428	McKenzie, John.....429		
	Hart, Geo. B.....430	Michell, H. F. Co.....425		
	Heistad, H.....415			
	Heintz & Nash.....432			

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BEST STRAWBERRIES FOR DIFFERENT LOCATIONS

What variety of strawberries shall I grow? That is a question which is often asked, even by professional gardeners, because the strawberry is a very national fruit and kinds which thrive well in one section give almost no results in another. Experts from Washington have been studying this matter and in a recent bulletin have presented some interesting findings. It is stated that about fifty varieties are grown rather extensively, but many are suited only for restricted sections.

The soil requirements of the different varieties are important, though to a less degree than the climatic requirements. Certain varieties, like the Klondike and Dunlap, are adapted to a very wide range of soils, while others, such as the Aroma and Gandy, are much more exacting. The Aroma seems best adapted to a fairly heavy soil, such as a heavy silt loam, while the Gandy does best on a clay loam. The reason for these differences in soil adaption seems to lie, in part at least, in the amount of moisture which the different sorts can get from the different soils through their roots.

The Marshall, Glen Mary and some others do not yield well under ordinary field conditions, but produce large crops when grown under intensive garden culture and when stable manure is applied.

Among the varieties having large, showy fruit are the Chesapeake, Columbia, Joe, Nich Ohmer, Lupton, Marshall, Oregon, Magoon, Success, and Belt (*William Belt*). Others bearing fruit which is almost as large and showy as these are New York, Early Jersey, Glen Mary, Aroma, Grandy, Mascot, Brandywine, and Jucunda.

Many who can not eat certain varieties because of their high acidity can eat the milder flavored sorts without harm. The New York is considered one of the best for such use, as it is very mild. Other mild-flavored sorts are the Marshall, Chesapeake, Belt (*William Belt*), Nich Ohmer, Early Jersey, and Superb.

The quality of strawberry varieties is influenced to a large extent by climate and local weather conditions. Furthermore, varieties that appeal to certain individuals as of very high quality do not so appeal to others. Some like varieties with a very mild flavor, while others like those having a pronounced flavor and considerable acidity. Varieties vary greatly from season to season in the same section, and often have higher dessert quality toward the end of the season than at the beginning. Moreover, a variety may have good dessert quality in one locality, but this quality may be poor in a section having a different climate. Thus, the Nich Ohmer is almost insipid in Florida, but often has high quality in New Jersey and very high quality in California.

The Marshall, Americus, and Jucunda are among the varieties having the best dessert quality. The Marshall is mild in flavor; the Americus, an everbearer, is a little more acid and has a musky flavor as well, while the Jucunda is subacid. Other varieties of high quality are the Belt (*William Belt*), Chesapeake, Joe, Dunlap, Oregon, Brandywine, Success, New York, and in certain sections the Nich Ohmer.

Two sorts, the Progressive and Superb, under favorable conditions produce a crop during the summer and autumn. Several other everbearing sorts are in the trade, but are not generally as desirable as these. Among those grown to a slight extent are the Peerless, Americus, Francis, and Minnesota No. 1017.

It is claimed in certain sections that strawberry varieties soon run out, but the records prove the contrary.

The Klondike was originated about 1896 and introduced in 1901, while the Aroma originated in 1889, the Dunlap in 1890, the Gandy in 1885, the Missionary about 1900, the Chesapeake in 1903, the Clark before 1880, the Joe before 1899, the Marshall in 1890, and the Sample in 1894. The Jucunda, the leading variety in Colorado, was introduced before 1860. The Wilson originated in 1851 and is still grown in some localities. It was at one time grown throughout the United States, but it has been replaced in most sections by varieties more resistant to disease and having larger, firmer berries with milder flavor.

The Early Flowering Magnolias

It is only favorable seasons that *Magnolia stellata* escapes being damaged by late frosts in New England. The cold weather which came a few nights ago, when the temperature dropped to twenty-six degrees above zero in Boston, discolored the opening blossoms of this plant wherever it was found. It is a handsome species, but is less to be preferred for planting on private estates than *M. conspicua*, now commonly known as *M. denudata*. Usually this magnolia escapes injury by late frosts, but this year the blossoms in many places were damaged, although in sheltered spots they were harmed but little. This Chinese tree is considered one of the handsomest as well as one of the hardiest of the spring flowering

trees suitable to the climate of eastern New England. It almost invariably produces many large, tulip-shaped blossoms. There are several hybrids between *M. denudata* and *M. liliflora*, which also is known as *M. obovata* and as *M. purpurea*. The flowers of these hybrids are somewhat tinged or streaked with rose, and all of them come a little later than *M. denudata*. While several of the hybrids are equally beautiful, *M. Soulangeana* is the best known, and most widely planted. Probably this is the best of all the early flowering magnolias for the home grounds, except where planting can be made in a large way and in variety. While the flowers come a little later than those of *M. stellata* and *M. denudata*, this is really a point in its favor because it is seldom injured by the cold weather. *Soulange's magnolia* is a very showy, handsome shrub or small tree, and is a better plant to recommend than either *stellata* or the tree magnolia.

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CONTENTS

Page

BEST STRAWBERRIES FOR DIFFERENT LOCATIONS.....

THE EARLY-FLOWERING MAGNOLIAS.....

S. A. F. & O. H.—National Publicity Campaign—Is the average florists a good business man?.....

MAKING A ROSE GARDEN.....

CLUBS AND SOCIETIES:

Horticultural Society of New York—National Association of Gardeners.....

Florists' Club of Philadelphia.....

AMENDMENT NO. 2 TO REGULATIONS SUPPLEMENTAL TO NOTICE OF QUARANTINE NO. 37.....

FORSYTHIA INTERMEDIA SPECTABILIS—Illustrated.....

LOCAL AND GENERAL NEWS:

Washington, New York, Philadelphia.....

Flowers by telegraph.....

FLOWER MARKET REPORTS:

Boston, Washington, Philadelphia.....

MISCELLANEOUS:

Does Publicity Pay?.....

The Year is Beginning to Work.....

Your Questions Answered.....

Why There are More Unpaid Claims Against Railroads for Lost or Damaged Goods Than Ever Before.....

Steam Sterilization Kills Diseases Infecting Soils..

Economy in Manuring.....

News Notes.....

Cutworms in Greenhouses and Outside.....

Experiences of a Woman Greenhouse Grower.....

Patents Granted.....

Rhododendrons

There has been much discussion as to the relative merits of our native American rhododendrons and the hybrid varieties imported from Europe. Of our native species *R. maximum* has been the species most largely planted. In its natural state it is found in moist, shady woods where it is sheltered from sun and wind. Why this rhododendron is so extensively planted by many landscape men in situations where it is exposed to wind, sun and drought is a matter quite beyond our comprehension—probably because it produces that which pleases most clients, immediate effect. Such immediate effect is, however, of short duration—the plants soon die and when the owner learns the reason as he invariably does, the landscape man is discredited by the client and his friends. The owner of a large estate on Long Island, N. Y., in speaking of *R. maximum* had occasion to say to us, I was induced to buy a number of car loads of them at a bargain price of a hundred dollars a car—it cost me five hundred dollars a car to get rid of them. Of course *R. maximum* has its place in land-

scape work and when planted in a suitable situation constitutes a strong and pleasing feature. *Rhododendron catawbiense* thrives in sun, provided it is given a deep soil of average moisture. It does not suffer seriously from moderate wind, but in common with all broad leaved evergreens should not be planted in wind swept situations. It has a much greater range of adaptability than *R. maximum*. The purple color of the flowers is the only objectionable (?) quality of *R. catawbiense*, and in most of the countries of Europe this color is highly esteemed. *Rhododendron carolinianum* is in our opinion unsurpassed by any other native species. Its rich, deep green foliage seems to be the hardiest of all and the clear pink flower clusters are of rarest beauty. It seems to thrive equally well in sun or partial shade, and is especially adapted to wood-land plantings. We think that this variety offers the greatest possible opportunity for the hybridist who by using this species may give us a new race better constituted to our severe climatic conditions than are the hybrids of *R. catawbiense* to which we are now limited.

Annuals for the rock garden

Rock gardens are commonly expected to contain only perennial plants yet there are not a few annuals which are well suited to rock garden culture. It often happens that the addition of these annuals does much to improve the appearance of the rockery. This is especially true where bulbous plants have been grown, the annuals keeping up the floral procession. There are two ways of starting them. The simplest is to sow the seeds in the soil in close proximity to the bulbs. The other and better plan is to start them in the seed bed or a cold frame and transplant them later on. Of course dwarf or trailing plants are the most desirable, and as a matter of course those which are averse to a rather dry soil will not be chosen. It is wise to make a rather close planting at first, even though thinning is necessary later, as sometimes the heavy rains of spring do more or less damage. An English gardener who has been experimenting with the different annuals for rock gardens has made up the following list: *Abronia umbellata*, fragrant, lilac, trailer; *Ageratum Dwarf Blue*, very free-flowering; *Alyssum maritimum*, dwarf, white; *A. saxatile* (Gold Dust), yellow, both very fine; *Arctotis breviscarpa*, orange color, suggestive of the *Calendula*; *Campanula attica*, either in purple or in white varieties, profusely flowering dwarfs; dwarf hybrid *Candytufts*, various varieties; *Collomia coccinea*, suggestive of the *Bouvardia*, scarlet and tall; *Eschscholtzia Mandarin compacta*, a brilliant orange; *Gilia nivalis*, white, and *G. minima caerulea*, beautiful blue, both 4 inches to 6 inches in height; *Godetia Bijou*, the smallest of its class; *Gypsophila repens*, red and white; *Ionopsidium acaule*, a close-growing, very dwarf plant; lilac; *Leptosiphon androsaceus*, pale purple; *Limnanthes Douglasii*; *Kaulfussia amelloides*, white, blue or crimson; *Mesembryanthemum tricolor*, must be grown in a sheltered, sunny nook; dwarf *Namesias*, various, but only employ the most brilliant kinds; *Nemophila*; *Nectarinia capensis*, white and blue dwarfs; Pansies and *Violas*; *Phlox Drummondii* of the smaller sorts; *Platystemon californica*, a kind of trailing Poppy with cream flowers; *Portulaca*, very dainty; *Salvia roemeriana*, fine scarlet flowers; *Sanvitalia procumbens* of double sorts, yellow and crimson; *Saponaria calabrica*, rose or white; *Schizanthus pinnatus*, very floriferous; *Silene pendula compacta*, various colors; *Tagetes signata pumila*, yellow gems; *Virginia Stock*, fine in the mass, but be sure to get selected forms; *Veronica glauca*; and *Whitlavia grandiflora*, rather large.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

There are very many ardent supporters of our campaign who have followed up work closely enough to assure themselves that our efforts to increase business are yielding a bumper measure of success.

The following letter, from a well known firm, vouches for a direct benefit resulting from the publicity campaign:

"Lincoln, Ill., April 19, 1919.

"Mr. John Young, New York, N. Y.,

"Dear Sir:—Enclosed please find our check for \$50 in payment of our subscription for 1919 to the Florists' Publicity Fund. We are finding evidence of substantial returns from this advertising from a source we had little thought of, until we began to notice such evidence in the increase of orders from it. This source is the better class of magazine readers in a number of little towns. We can only attribute the increase in the number of accounts from these smaller towns to the attractively planned advertisements placed in the various magazines of wide circulation.

"It is our belief that while there will not be the great scarcity of flowers during the next year which has prevailed since the summer of 1918, nevertheless, demand will be so largely augmented by the highly intelligent advertising campaign now being prosecuted by our National Society, that prices will be at least in a considerable measure sustained.

"Yours truly,

"(signed) GULLETT & SONS."

If it were needed, this letter might be taken as a direct endorsement of the policy of our committees to confine our advertising to the national magazines of general circulation. Our subscribers are to be found in practically every section of the country, therefore our advertising mediums must cover equitably every bit of territory of the United States, in which case they also, necessarily, cover Canada. To every million subscribers to these magazines, it is safe to add at least four million readers, for it is universally admitted that the average of readers for each copy put out is five persons. Small wonder, then, that our publicity is far reaching.

If non-subscribers would give a little thought to these facts, and, as well, make it their business to inspect our advertisements in magazines which surely come to their hands in some way, considerable impetus would be given to the campaign. The "broadside" recently sent out by our Promotion Bureau, and which is now in the hands of the trade in every section of this country, gives full information as to where our advertisements are to be seen and also describes the various aids for making local connection with them. It is to the interest of every florist to make this connection, either through the newspaper electrotypes, provided, or by projection in moving picture theatres of the lantern slides furnished for this purpose. Anyone who has not received a broadside should make immediate application of the secretary for one.

JOHN YOUNG, Secy.

1170 Broadway, New York.

DOES PUBLICITY PAY?

Three years ago the National War Garden Commission and the Department of Agriculture started a publicity campaign on

VEGETABLES:

SEED sales jumped! The **Seeds-men** have had the three biggest years in their history.

Two years ago the **Florists** started their publicity campaign on

FLOWERS:

Flower sales jumped! In spite of adverse conditions, business increased so much last year that many florists this year are **doubling** their subscriptions to the Publicity Fund.

This year the **Nurserymen**, through the National Service Bureau, started their publicity campaign on

NURSERY STOCK:

Nursery sales jumped! Nurserymen have had all the business they could do—at higher prices.

DOES PUBLICITY PAY?

IS THE AVERAGE FLORIST A GOOD BUSINESS MAN?

This is the question that I have often heard discussed—and cussed. Well, it is really hard to say, but there is no doubt that the majority who are good business men have made a success of their venture in the florist business despite poor conditions and lack of proper organization; and then there are some who will have to be classed as successful because they made money without the foolish expenditure of money for advertising," or the help of the national organization, or any of the large trade organizations; such a man is in a class that is known the world over as "selfish," feeling that there is some one else spending his time and money and he will get results just the same. By comparison, we class him just as an American does the uneducated and, perhaps, unfortunate of some of the trouble burdened countries for whom America went into the war with the hope to some day take him by the hand and say, "My friend, my work has not been in vain, for now you see the light."

How few of the craft know of or care for the great work done in their behalf in protecting them from bad legislation, or from fraud through lack of knowledge of losses they would have sustained without that knowledge? There are those who do untiring work for the benefit of all in the trade and ask for their reward—results. So when you are asked for your share of expense as a contribution toward the National Publicity Campaign, you are enjoying a distinct privilege.

The slogan, "Say it with flowers" is given you to use without question. Are you so ungrateful or short sighted as not to see what it all means to you? The moneys contributed are used mostly in national magazine advertising contracts. In order to secure space in the leading publications, we must be given two or three months in advance of publication, which means if we are to spend money for the starting of a vigorous campaign when the late summer and fall crops are in, we must have assurance that we can meet our obligations, that's all. **GEORGE ASMUS**, Chairman of Finance Committee, S. A. F. & O. H. Publicity Campaign.

MAKING A ROSE GARDEN

Important Points About Varieties and Cultivation.

Apparently there is a decided revival of interest in the growing of garden roses. Amateur gardens are planting them freely, while rose gardens on large places which have been neglected throughout the war period are being put into shape again. Much of the information about the culture of roses which is being put out is not altogether accurate, but the following article which has been prepared by the Missouri Botanical Garden for its monthly bulletin contains many important points:

Location.

Roses are entitled to the choicest location in a yard. Good exposure to the sun, and proper protection from prevailing winds will do much to make the rose garden a success. While a location with a full-day sun exposure is much to be preferred, it is not absolutely essential, and where a choice must be made it is best to give roses the morning sun. Beds should not be located near trees or shrubbery. Roses are heavy feeders and for their best development require an unusual amount of fertilizer; when planted near trees or shrubbery, the roots of the latter deplete the soil of nourishment, with the result that the roses suffer. If, however, planting in close proximity to trees and shrubs is unavoidable, it is advisable each year to dig a trench (about a foot wide and two or three feet deep) around the rose bed and fill with well-rotted cow manure. This procedure will tend to prevent the roots of shrubs from actually entering the rose bed. Sometimes a concrete wall is constructed deep enough to prevent this encroachment.

Soil.

Roses usually do well in any good garden soil, but better results are obtained if considerable care is exercised in the preparation of the ground. Roses require a heavy, well-drained soil. To obtain this, the area to be used for a bed should be dug out to a depth of from eighteen inches to two feet, and if the drainage is not good another six inches should be removed and this space filled with fine broken stone, brick, or old flower-pots. Upon this porous stratum six inches of well-rotted cow manure should be placed, and finally sufficient heavy soil to fin-

ish the bed, raising it not more than three inches above the surrounding grade. This latter layer should, if possible, be top soil (including sod) from an old pasture. After making the bed it should be allowed to settle for a week before the planting is begun.

Planting

Roses may be set out either in the fall or in the spring. The spacing depends very largely upon the variety; tea and hybrid tea varieties may be planted about eighteen inches apart, but hybrid perpetuals, on account of their more vigorous growth, should be spaced at least two and one-half feet, and ramblers eventually need about four feet. In any case an eight-inch margin from the edge of the bed should be allowed. Where potted stock is being planted, the ball of earth should be placed with its upper surface about two inches below the soil; field-grown stock may be set two or three inches lower than its former position in the nursery. The holes for receiving the plants should be large enough to admit the stock without bending or crowding the roots, the soil should be firmly packed around the roots, and the plants thoroughly watered immediately after planting. All stock should be so pruned that but two or three buds remain on each shoot—the upper bud, in each case, pointing outward.

Varieties to Plant.

Rose stock may be either grown on its own roots, or grafted or budded. It may be well in this connection, however, to call attention to certain disadvantages which attach to budded stock. In general, budded stock is more easily killed in severe winters than is stock grown on its own roots, and in addition the shoots which invariably spring from the parent stock frequently suppress the scion unless cut away. On the other hand, there are varieties of roses which it is impossible to grow satisfactorily unless they are budded on to a hardier stock.

Of the four or five thousand varieties of roses at present on the market, some growers list as many as eight hundred, but of these only a few grow to perfection in this latitude. As the result of tests from the standpoint of perfection of blooms, profuse flowering, and general hardiness, the following list of varieties has been prepared as being particularly desirable:

Hybrid Tea (Ever blooming)—Gruss an Teplitz, scarlet crimson; Lady Ashdown, pale rose; Mad. Jules Grolez, bright china rose; Indiana, red; La. Detroit, shell pink; Eclairde, scarlet; Lady Ursula, flesh pink; La. France, bright pink rose; Augustine Guinoisseau, white; La. France, Otto von Bismarck, bright rosy pink; Mrs. Aaron Ward, Indian yellow; Killarney, pink; Killarney, white; General McArthur, bright crimson; Duchess of Wellington, deep coppery yellow.

Hybrid Perpetual, or Remontant (blooming period 4-6 weeks)—Fran Karl Druschki, snow white; General Jacqueminot, brilliant scarlet crimson; Magna Charta, bright rose; Ulrich Brunner, cherry-crimson.

Polyantha (Dwarf Hedge Rose)—Katherine Zeimet (white baby rambler); Orleans, geranium-red (the best ever-blooming variety for hedges yet found); Clotilde Souper, flesh.

Rugosa, or Japan Rose—Any variety that is suitable (the single or semi-double only produce the scarlet hips or seed pods).

Sweetbrier—Any Lord Penzance variety that is suitable (do well in partial shade and shrubby borders).

Moss Roses—Any variety that is suitable. Wichuriana and Climbers—Hiawatha, brilliant scarlet; La. Fiamma, crimson and white; Dorothy Perkins, light pink; Dorothy Perkins, white; American Pillar, pink with a clear white eye; Lady Gay, cherry-pink.

Spring and Summer Care.

Before growth commences in the spring, the surplus coarse manure should be removed from the beds and the remaining fine portion turned under. Deep cultivation is not desirable—three inches being quite sufficient in beds which have not been trampled on—as the roots are likely to be injured or broken. For this purpose it is desirable to use a four-pronged digging fork, as it is less likely to injure the roots than a spade. Afterwards, and until the buds begin to develop, nothing more is necessary except frequent stirring of the surface with a sharp-pointed rake. As the flowering season approaches, feeding with liquid cow manure should begin and should continue until the blooming season is over, after which all stimulation should cease. The liquid cow manure is conveniently prepared by adding about six pails of fresh cow manure to a barrel of water (fifty gallons) and allowing the mixture to stand a day or two before using. If a half bushel of soot contained in a burlap bag is hung over night in the barrel of liquid manure, the beneficial properties of the fertilizer will be greatly increased. About one-half gallon of this infusion should be used for each plant and the application may be repeated once a week. It is safe to say that this is one of the most efficient fertilizers for roses. During July a light top dressing of finely crushed bone is also of advantage.

Although it is generally believed that magnesium in excess is the most poisonous of all the plant nutrients or fertilizers, Tonk, as early as 1889, recommended a manure for roses containing sulphate of magnesium with, however, an excess of lime. Here the matter rested for twenty years. In 1909, Truffant noted the large proportion of magnesium found in the analysis of roses, and stated that soils deficient in this element produced but a weak growth of roses, but that the addition of magnesium salts brought about a marked increase of vigor and growth. The following year at the International Rose Conference, in Paris, the particular value of magnesium for roses was one of the subjects for discussion. It was declared to be indispensable and it was stated that it should always be given in the form of sulphate in doses of about five ounces to the square yard.

As the result of recent experiments and the experience of at least one practical rose grower of national reputation, it is believed that the following practice is correct: Attention should be called to the fact that all roses do not react alike, and some varieties not yet tested may not respond satisfactorily or may even be slightly injured by the magnesium. One should, therefore, proceed cautiously. If plants are to be watered with a solution, use nitrate of magnesium at the rate of one ounce to the gallon. This may be used once a week through the season, but if any ill effects are noted, the application should be discontinued. If the magnesium is to be applied dry, it is better to use finely powdered commercial carbonate of magnesium which contains a certain amount of lime. This should be applied at the rate of one-third of a pound to the square yard. No immediate effect will be noticed from the application, but, later, increased sturdiness and consequent richness of foliage and blossom should result.

Insects.

Half starved and otherwise neglected roses are quite susceptible to insect attacks, which, however, is not the case if the plants are properly cared for. The most serious insect enemy of the rose is probably the green fly, well known to all who have grown roses. It is a small, green plant-louse, or aphid, about one-eighth of an inch in length when full-grown and usually wingless. The body is oval and soft and secretes a sweet fluid of which ants are particularly fond. The presence of ants on rose bushes is good evidence that the

aphids are at work. The latter usually work on the young shoots, sucking the juices with their long, slender beaks, and if unmolested quickly destroy the vigor and vitality of the rose plant. The most effective agent with which to combat the aphid is tobacco smoke, but its use out of doors is obviously connected with serious difficulties. In its place, however, a solution made from tobacco stems and whale-oil soap will be found effective. To make this solution one pound of tobacco stems should be soaked in a gallon of water over night, after which one ounce of whale-oil soap which has first been dissolved in a small quantity of hot water, should be added (it will require three or four hours for the soap to thoroughly dissolve). The solution so prepared should be thoroughly stirred before using and may be applied either with a sprayer or with a whisk broom. This quantity is sufficient for about twenty-five plants. Where a sufficient water pressure is available the green fly may further be kept in check by vigorously spraying the plants from time to time, as required.

Another troublesome pest of outdoor roses is the rose hopper, or thrips. This insect is small, yellowish white, about three-twentieths of an inch long, and provided with a pair of transparent wings. It preys upon the leaves, working especially on the under side, causing the foliage to assume a sickly yellowish appearance. The control of this insect is more difficult because of its active jumping and flying habits. Spraying the plants with water, so as to wet the under side of the leaves, and subsequently dusting them with powdered hellabore usually effects a sufficient control.

Several kinds of caterpillars prey upon the rose, sometimes causing considerable injury. All of them envelop themselves in the leaves or burrow in the flower buds. Powdered hellebore sprinkled over the plants prevents to a considerable extent the movements of the larvae, but removal is best accomplished by actually picking them from the plants.

Fungous Diseases.

The mildew is perhaps the commonest disease of the rose. Some varieties are seldom attacked and certain locations are much more subject to it than others. The disease generally makes its appearance in the autumn, when the nights begin to grow cool. At this season, however, it works but little harm, as the plants have made their growth and the wood is nearly or quite ripened. A mixture of equal

parts of quick lime and sulphur, applied when the dew is on the plants, will usually prevent mildew. The following solution has been used successfully: one ounce of copper carbonate, one pint of ammonia, and ten gallons of water. Plants should be sprayed with this mixture once a week, using a nozzle giving a fine spray.

Winter Protection.

The work of protecting roses against the severe cold of the winter should be done by November 20. The earth should be heaped up around each plant to a depth of from two to three inches in order to provide drainage away from the center of the plant, and from four to six inches of straw manure should be placed over the entire surface of the bed. This treatment will protect any of the varieties previously mentioned, except the tree, or standard roses. These are budded at the crown and unless wrapped with hay or straw, freeze very easily.

Pruning.

One of the most important considerations in rose culture is that of pruning. No directions can be given which will be sufficiently explicit to enable one to know just what to do in each individual case; practical experience alone can furnish this information. But the general principles that should be observed in pruning can be readily stated. As regards tools, a pair of good shears and a pruning knife with hooked blade are desirable. The work can be more quickly and easily done with the former, but where a very smooth cut is to be made, the pruning knife is preferable—also because it is less likely to bruise the bark.

All pruning should be done while the plants are dormant. The chief objects to be held in view in pruning roses are: the production of a symmetrical plant, and the promotion of flower bud formation. To secure these results plants of delicate habit and weak growth should be severely pruned. Vigorous growers, on the other hand, should have the shoots only moderately shortened, but the branches well thinned out. In all cases the cut should be straight across the stem in order to expose a minimum amount of wounded surface, and care should be taken that the top bud which remains points outward. Climbing roses require no pruning beyond cutting out the very old and dead wood and shortening the laterals, except the trimming which may be necessary to make the plants conform in shape to a particular arbor or trellis. The tendency seems to have been towards over pruning.

CLUBS AND SOCIETIES

HORTICULTURAL SOCIETY OF NEW YORK.

An exhibition of plants and flowers will be held on Saturday and Sunday, May 10th and 11th, in the Museum building, New York Botanical Garden. Schedules are now ready for distribution, and will be sent on application to the secretary, George V. Nash, New York Botanical Garden, Bronx Park, N. Y. City.

GEORGE V. NASH, Secy.

NATIONAL ASSOCIATION OF GARDENERS.

The executive board of the National Association of Gardeners for some time past has had under consideration the advisability of establishing headquarters in New York City, and having considered the present time opportune, it has opened an office at 286 Fifth avenue, New York. The secretary's hours will be 10 a. m. until 3 p. m., excepting by special appointment.

This step has been actuated to a large extent by the increasing interest that is being manifested towards the Service Bureau of the association by country estate owners, which makes it desirable to be more conveniently located for these clients of the association.

The members of the National Association of Gardeners of Boston and vicinity will hold a spring conference on Friday evening, May 16th, at 6 o'clock, in Horticultural Hall, Boston. An interesting program is being arranged and all interested in the profession of gardening are most cordially invited to attend the conference. Those who have been present at previous Boston conferences, know how interesting and entertaining these meetings are.

It is proposed to hold the annual convention in Cleveland on August 26-28. This date is suggested as horticulture in the vicinity of Cleveland is to be seen at its best, and the weather conditions are usually favorable at this season of the year. The executive board will take final action on the convention date the latter part of May, and President Weeks will then appoint the convention committees.

THE YEAR IS BEGINNING TO WORK!

"Does general educational publicity build business?"

"Yes, it does—and we can prove it," says Manager Rockwell, of the Nurserymen's National Service Bureau, "You don't have to take my word for it, however. Just consider the following facts:

"Every time anyone suggests national publicity for nurserymen and mentions, as an argument in favor of it, what the California Fruit Growers, or some other association, has done, somebody in the back row is seen to rise up and say:

"'Yes, yes. But our proposition is different. You don't standardize nursery stock. And without standardization publicity ain't worth a tinker's tink!'

"Well, let's see about that. Let's take the things nearest akin to the nursery trade—seeds and flowers. (And, incidentally, nobody has ever succeeded in standardizing seeds or flowers!)

"If you know any seedsmen at all, you know what the demand for vegetable seeds has been this last three years. Last year it ran way ahead of the year before; this year, according to a survey just completed by the Seed World, 40 per cent of the retail seed houses report sales running ahead of last year, notwithstanding greatly increased prices. Mr. Pack, president of the National War Garden Commission, told me the other day that they estimated from their field agents' reports, a very substantial increase in the number of home gardens this year—although the war is over.

"And as to flowers. Certainly they cannot be standardized. They are, compared to either vegetables or nursery stock, a luxury. But last year, with the war still on, the Red Cross and War Chest campaigns being pushed, *business in flowers increased!*

"Why?

"Well, the leading florists of the country are satisfied that the increase was due to their publicity campaign. That they are not merely talking when they say that is proved by the fact that they are putting up more money this year than they did last year for

the possibility campaign, although the war is over. And when a man talks with a check, he means what he says.

"And this year, although prices were higher than they have been for several years, nurserymen have found a bigger demand for their product than ever before.

"Again, why?

"Again, the answer is publicity. The work of the Nurserymen's National Service Bureau was not started until the beginning of the year, but for weeks past prospective planters have been urged by the series of educational articles which the Bureau has supplied to over 500 especially selected newspapers throughout the eastern and mid-western states, to plant. Over a million and a half prospective buyers have been told the advantages of planting, have had suggested to them what to plant, and have been instructed how to plant for successful results; they have been helped in the care of the things they have already planted—and in the proportion that they succeed with whatever they have already planted they will plant other things.

"When Mr. Allen asked me for a list of nurserymen who could be recommended he did not know that any publicity had been carried on by the nurserymen. He did not know that I was connected in any way with the nursery industry. But he did know, as his letter states, that the magazine with which he is connected, and which has a large country circulation, *had been receiving a noticeable increase in the number of inquiries regarding where certain trees, shrubs and ornamentals could be obtained.* Of course, the work of the Nurserymen's National Service Bureau is still a very small beginning, but if the little we have done so far has shown results so noticeable, can any nurseryman who is at all familiar with the part publicity plays in modern merchandising have any doubt that at least a small part of his advertising appropriation can be expended more effectually in a co-operative campaign for general publicity than in individual effort?

"No nursery concern in the country, at no matter what expense, could possibly have obtained the publicity which the Service Bureau has been able to get. If paid for at advertising rates it would have cost tens of thousands of dollars—but it could not have been bought at any price."

YOUR QUESTIONS ANSWERED.

I seem unable to make hollyhocks grow in my garden because they soon become diseased and look unsightly. Must I give them up entirely?

NOVICE.

In his Hardy Flower Book, C. H. Jenkins says that a cupful of salt dissolved in three gallons of water and applied every two weeks in spring with a syringe in a fine, mist-like spray, is effective in controlling the hollyhock disease. He says, however, that the salt must not reach the roots of the plants. We do not know of anybody in this country who has tried out this remedy, but if really effective it seems to be an improvement over bordeaux mixtures, which is most commonly relied upon. It must be said that bordeaux is not by any means as efficient as we should like it to be. Perhaps the simplest plant is to grow new plants from seed each season, taking pains to give them an open location where the air will circulate freely, and using rich soil. Diseased plants should be destroyed each year.

What do you recommend for planting in the bulb beds to continue the season of bloom?

E. T. R.

There are several shallow rooted annuals which give a good account of themselves in the bulb bed, and do no harm to the bulbs. One of the best for the purpose is the so-called annual mallow or lavatera, which blooms freely and has a small, attractive, mallow-like pink flower. The foliage as well as the blooms is attractive. There is a white variety, but the pink kind is better. Verbenas, heliotropes, pot marigolds and similar plants may be used in the same way.

Can you give me a remedy for the white grubs which feed on the roots of my strawberry plants and do much damage?

S. P.

It has been recommended that tobacco dust be dug into the ground to prevent this trouble, but a better plan has been tried out in Vermont, with success. A strong decoction of tobacco is poured upon the ground around the plants, and seems to be very effective in destroying the grubs. Of course when new beds are made each year in ground which has been cultivated the year before, there is little trouble from the white grubs. This tobacco water treatment, by the way, is proving useful in the vegetable garden, especially in protecting melon and cucumber plants. Little damage will be done by the striped beetle if the liquid tobacco is used on the ground close to the stems.

Best Young Trees

Little Tree Farms, Framingham, Mass. Millions of Evergreen and Deciduous trees, all grades and sizes.

Write for Price List

Firs, Junipers, Arbor-vitae, Pines, Spruces, Maples, Ash, Oaks, Lindens, Elms, etc.



American Forestry Company

15 Beacon St., Boston, Mass.



NURSERY STOCK

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List

W. & T. SMITH COMPANY, Geneva, N. Y.

We are subscribers to the Nurserymen's Fund for Market Development

HILL'S EVERGREENS

BEST FOR OVER HALF A CENTURY
Small, medium and large sizes supplied
Price list now ready

THE D. HILL NURSERY CO.

Evergreen Specialists. Largest Growers
in America
BOX 415, DUNDEE, ILL.

RHODODENDRONS, MAGNOLIAS, HARDY ROSES, BOXWOOD, all shapes

Send for Catalogue

N. F. McCARTHY & CO., 112 Arch Street
Boston, Mass.

Can you tell me what makes my celery grow leggy and pithy? I used manure freely at planting time and fed the growing crop with liquid sheep manure. Did I use too much of this fertilizer?

L. WHITE.

Who can tell? There are many theories but few known facts about the cause of pithiness in celery. Some gardeners believe an excess of nitrogen makes the hollow stalks, yet good celery is often grown where stable manure is used with the greatest freedom. One expert believes that the trouble commonly starts in the seed bed, where the plants are allowed to become too crowded. It is quite feasible to cut back young plants to make them more stocky. Oftentimes a mulch in the bed will do much to produce good celery, especially if the summer is a hot one. Professor Watts, of Pennsylvania, has advocated spreading a deep mulch of horse manure over the beds, thus keeping the ground cool, preventing the growth of weeds and reducing the amount of labor.

PATENTS GRANTED.

1,298,841. Cultivator, Thomas E. West, Oak Park, Ill.

1,299,064. Cultivator. Sanford L. Timmons, Des Moines, Ia.

1,299,073. Wheel-Cultivator. Hays Wardlow, Naylor, Mo., assignor of one-half to Louie Hering, Naylor, Mo.

1,299,406. Weed-Destroyer. Alfred Tyson, Sappington, Mo.

Chrysanthemum
Cuttings

Major Bonnaffon, Chas. Razer, Oconto, Pacific Supreme and Chrysolora, ready April 1st, \$2.50 per hundred.

Also, Extra Strong Cuttings of Carnation Matchless, \$20.00 per thousand.

W. D. HOWARD

MILFORD, - - MASS

GLADIOLI

New Trade List Ready

JOHN LEWIS CHILDS, Inc.

Flowerfield, L. I., N.Y.

When writing to advertisers kindly
mention HORTICULTURE

INSTRUCTION IN GARDENING

Practical instruction is offered in vegetable, flower and fruit gardening, greenhouse and nursery practice, together with lectures, laboratory, field and shop work in garden botany, zoology, pathology, landscape design, soils, plant chemistry and related subjects.

The curriculum is planned for the education of any persons who would become trained gardeners or fitted to be superintendents of estates or parks. Students may be admitted at any time. Circulars and other information will be mailed on application.

The New York Botanical Garden

Bronx Park

NEW YORK CITY

WHY THERE ARE MORE UNPAID CLAIMS AGAINST RAILROADS FOR LOST OR DAMAGED GOODS THAN EVER BEFORE.

I am told that there are more unpaid claims on file today against railroads for loss or damage to merchandise en route than ever before in the history of railroading. Perhaps the readers hereof, all of whom use the railroads for shipping goods either in or out, would be interested to know why this is, and what chance there is for relief.

Everybody knows that as a war expedient, the United States Government took over most, though not all, the railroads in the country. In order to cut red tape, and get the benefit of single control in the shipment of merchandise and men, this was deemed necessary and nobody objected. In the beginning, Congress tried to protect the interest of shippers through the act of March 21, 1918, which, in spite of the taking over, made the railroads subject to all existing laws, and as liable to shippers for loss or damage to merchandise as they were before. Under this act a shipper or receiver who had a claim against a railroad for lost or damaged goods, could sue and get judgment just as if the road was not under government management, *but he could not issue execution on that judgment.* In other words, his judgment simply stayed there on record, binding the railroad real estate—and drawing interest—until such time as the legal ban was removed and he could recover on it. He couldn't get his money right away, but he was protected until he could.

This would have been fairly satisfactory to concerns that had claims against the railroad, if the government had only allowed it to remain, but later the government charged that people were bringing unfounded suits against the railroad companies, and therefore issued a regulation, as to the validity of which I take the liberty of expressing great doubts. This regulation provided that all suits for loss or damage to merchandise in transit, instead of being brought against the railroad, must be brought against William G. McAdoo, Director-General of Railroads. This was so that there should not be any judgments whatever on record against the railroads, which was all right so far as the government was concerned, but grossly unfair to the shipper, who was placed in this position: He has a claim against a railroad company for loss or damage to goods in transit. It may be abso-

lutely clear, and may run into a large sum of money, which he may sorely need. Under the act of March 21, 1918, he could have brought suit and gotten judgment, anyway, and the judgment would have drawn interest until it was paid. Under the later regulation he can still bring his suit, but it must be not against the company, but against an individual—the director-general. If he gets his judgment he can't do anything with it either now or later, because it isn't against the railroad at all and therefore does not bind railroad property and gives no security.

The regulation has placed in the director-general the autocratic power to say whether judgments technically against him, but properly against the railroad, for loss or damage to goods in transit, should be paid. In most cases he has ignored them and I am told that the number of unpaid claims on file is stupendous, and is mounting higher all the time.

I have never believed—and I think this view is shared by most lawyers—that the regulations which compelled claimants to bring their suits against an individual who was not responsible, either legally or financially, instead of against the proper defendant, the railroad, was worth the paper it was written on. I do not believe that any claimant is bound to consider it, and feel quite confident that the courts would rule that while under the act of March 21, 1918, a claimant could not collect a judgment from the property of any railroad which had been taken over by the government, nevertheless he could sue the railroad direct and get his judgment against his railroad, notwithstanding the order. So far as I have seen, nobody has raised the question as yet, believing that the railroads were shortly to go back to their proper owners. Since it appears they are not, however, I shall expect somebody to raise it very shortly.

A number of other orders have been issued by the Federal Administration restricting claimants' right to sue, such as Order 18, which compels a claimant to bring suit either in the county where the cause of action arose, or in the county where the plaintiff lived when the cause of action arose. While this is also an obstruction, as it may not be possible or convenient for the claimant to sue in either of those two districts, it is not so important as the regulation requiring the suit to be against the director-general, which is equivalent to a denial of any real right of action at all.

My feeling is that these regulations, especially the one last mentioned, are worth no more than the one discussed

in a previous article, in which the government forbade the attachment of railroad employees' wages for unpaid bills. They are, I believe, an arbitrary and unlawful effort to destroy existing legal rights which are beyond the power of the Railroad Administration, or of the United States Government itself to destroy. What shall a shipper do to get around the regulation which gives him only a judgment against the director-general? If I were retained to raise the question I should do it by bringing the suit against the railroad company. The railroad would then itself raise the question by pleading that I had no right to do that, but under the government order it must be brought against the director-general. The court would then decide which was right.

(Copyright, April, 1919, by Elton J. Bucklen.)

STEAM STERILIZATION KILLS DISEASES INFECTING SOILS.

Steam sterilization of seed beds to control diseases and kill weed seeds and hibernating insects is recommended by the United States Department of Agriculture, and is described in detail in a bulletin issued for free distribution.

The open-air method of sterilization, which is described as the most satisfactory yet developed, brings about the direct application of steam to the soil by means of an inverted pan or hood. The equipment needed includes a boiler of 20 horsepower or greater capacity, heavy steam hose, iron pipe, canvas or burlap, and a steaming pan to cover about 72 square feet. Steam of about 100 pounds pressure should be applied to the area under the pan for 30 minutes, when the pan is moved to the next area, and a covering is placed over the soil just treated to conserve the heat and allow it to penetrate to the lower soil. Seed may be safely sown 12 hours after the steaming.

The method has been demonstrated to be effective for greenhouse work, and it is easily seen that it can be applied to hotbeds and cold frames.

PATENTS GRANTED.

- 1,298,134. Plant Setter. Richard L. Wilson, Union City, Tenn.
- 1,298,329. Motor-Plow and Cultivator. Edwin John Goode, Saffren Walden, England.
- 1,298,482. Land-Roller, Guy E. Dunham, Berea, Ohio, assignor to the Dunham Company, Berea, Ohio, a corporation of Ohio.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, F. W. Bolgiano, Washington, D. C.; First Vice-President, Wm. G. Scarlett, Baltimore, Md.; Second Vice-President, David Burpee, Philadelphia, Pa.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

Sealed proposals will be received by the General Supply Committee at its office in Washington, D. C., until 2 o'clock p. m., Wednesday, May 21, and then publicly opened, for furnishing seed as may be ordered from time to time during the period beginning July 1 and ending October 31, for use by the executive departments and other establishments of the governments in Washington, and by various field services. Delivery is to be made from contractor's shipping point on government bill of lading.

The seed to be purchased is as follows, the quantities named being the amounts purchased during the fiscal year, 1918:

(1) Alfalfa, purity 98, germination 90, 100 lbs. (2) Clover, alsike, purity 98, germination 90, 60 lbs. (3) Clover, red, purity 98, germination 90, 160 lbs. (4) Clover, white, purity 98, germination 90, 1,171 lbs. (5) Kentucky blue grass, purity 80, germination 70, 6,777 lbs. (6) Red top, purity 85, germination 85, 12 lbs. (7) Rye, purity 99, germination 95, no purchases in 1918. (8) Timothy, purity 98, germination 90, no purchases in 1918. (9) Orchard grass, purity 90, germination 90, 20 lbs. (10) Perennial rye grass, purity 95, germination 90, 250 lbs. (11) Italian rye grass, purity 95, germination 90, 1,087 lbs.

For feed, samples required. Discount on 100 lb. purchases to be stated. (1) Canary, last year's purchases 450 lbs. (2) Hemp, last year's purchases 650 lbs. (3) Maw. No purchases made last year. (4) Millet, last year's purchases 325 lbs. (5) Rape, last year's purchases 50 lbs. (6) Thistle. No purchases made last year. (7) Sunflower last year's purchases 4,600 lbs. Discount on 500 pound purchases to be stated.

AMENDMENT NO. 2 TO REGULATIONS SUPPLEMENTAL TO NOTICE OF QUARANTINE NO. 37.

Under authority conferred by the plant quarantine act of August 20, 1912 (37 Stat., 315), it is ordered that Regulation 14 of the Rules and Regulations Supplemental to Notice of Quarantine No. 37 Governing the Importation of Nursery Stock and Other

Unleached Sheep Manure FROM COVERED PENS

The best top-dressing for Roses and Carnations. For potting bedding plants add a four inch pot full to a bushel of soil and mix thoroughly.

Analysis: Amm. $1\frac{1}{2}\%$, Phos. Acid 1% , Potash $2\frac{1}{2}\%$.

100 lbs.	\$ 3.00
500 lbs.	13.00
2,000 lbs.	50.00

Arthur C. Boddington Co., Inc.

128 Chambers Street *Seedsman* NEW YORK CITY

Plants and Seeds into the United States effective June 1, 1919, be, and the same is hereby, amended to read as follows:

REGULATION 14. Special permits for importation in limited quantities of prohibited stock.

Application may be made to the Secretary of Agriculture for special permits for the importation, in limited quantities and under safeguards to be prescribed in such permits, of nursery stock and other plants and seeds not covered by the preceding regulations, for the purpose of keeping the country supplied with new varieties and necessary propagating stock: *Provided*, That this shall not apply to nursery stock and other plants and seeds covered by special quarantines and other restrictive orders now in force, nor to such as may hereafter be made the subject of special quarantines. A list of nursery stock and other plants and seeds covered by special quarantines and other restrictive orders now in force is given in Appendix A of these regulations.

Done in the District of Columbia this 27th day of March, 1919.

Witness my hand and the seal of the United States Department of Agriculture.

D. F. HOUSTON,
Secretary of Agriculture.

ECONOMY IN MANURING.

John M. Abbott, of the Middlesex County Bureau at Waltham, recently talked to Boston gardeners about fer-

tilizers and made some points which are worth considering. He laid special emphasis on the false economy of continued high manuring if the manure must be purchased, while he dwelt on the importance of using commercial fertilizers in a rational way. He said that acid phosphate was of great value when used in connection with manure, declaring that there would be a saving in dollars and cents while there would be an increase both in the quality and the early maturity of the crops.

MICHELL'S PRIMULA SEED

PRIMULA CHINENSIS (Chinese Primrose)

	$\frac{1}{2}$ tr. pkt.	tr. pkt.
Michell's Prize Mixture. An even blending of all colors.	\$0.60	\$1.00
Alba Magnifica. White.	.60	1.00
Chiswick Red. Bright red.	.60	1.00
Duchess. White, with zone of rosy carmine, yellow eye.	.60	1.00
Holborn Blue.	.60	1.00
Kermesina Splendens. Crimson.	.60	1.00
Rosy Morn. Pink.	.60	1.00

PRIMULA OBSCURICA GIGANTEA

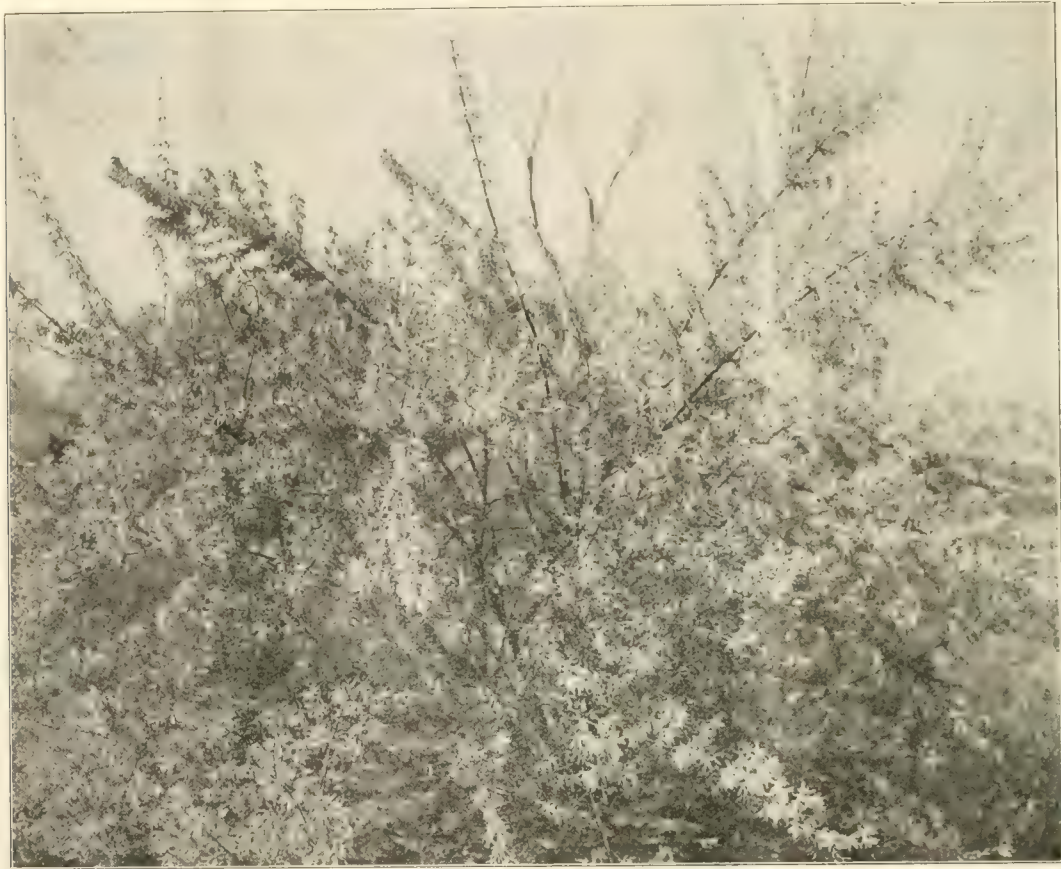
A great improvement over the old type, flowers much larger.

Lilacina. Pale lilac.	tr. pkt. \$0.50
Kermesina. Deep crimson.	.50
Rosca. Pink.	.50
Alba. White.	.50

Also all other Seasonable Seeds, Bulbs and supplies. SEND FOR WHOLESALE CATALOG.

HENRY F. MICHELL CO.
518 Market St., PHILADELPHIA, PA.

The Best of the Forsythias



FORSYTHIA INTERMEDIA SPECTABILIS

Again this year the form of *Forsythia* known as *F. intermedia spectabilis* has proved at the Arnold Arboretum to be the handsomest of all. It has been flowering very freely this season, and should make a strong appeal to nurserymen. The flowers are very large, deep bright yellow, and produced in the greatest profusion, completely covering the wide spreading branches. It is believed that this plant was first found in Germany, as it was sent to the Arboretum from the Spath nursery at Berlin.

Several other distinct and handsome forms are *var. primulina* and *var. pallida*. The former appeared as a seedling in the Arboretum a few years ago, and has pale primrose colored flowers. The *var. pallida* has pale straw colored flowers which are lighter in color than those of the other *Forsythias*. This plant also came to this country from Germany.

The *Forsythias* have been blooming much better this year than last season, although in some places they were somewhat injured by late frosts.

Probably the handsomest display to be found anywhere around Boston is on the grounds of the Museum of Fine Arts on Huntington avenue. This is about the only shrub which has been planted there, and with the one interruption makes a continuous border from one end of the grounds to the other. It is seldom that *Forsythias* are used so lavishly or so effectively in a public place.

The *Forsythias* hybridize freely and produce new seedlings which are often better than the parents. Probably all the hybrid *Forsythias* are natural hybrids. Those which are known seem to have come by the crossing of *F. virdissima* with *F. suspensa* or its *var. Fortunei*. The general name of these plants is *Forsythia intermedia*. A good place to study the hybrid forms is in the large collection at the base of Bussey hill in the Arnold Arboretum. According to Professor Sargent, the flower buds of the hybrids appear to suffer less from extreme cold than those of their parents, at least in the Arboretum.

Most of the *Forsythias* come from China and Formosa, but Europe is represented by one species known as *F. europaea*. This is a vigorous, hardy plant, but is somewhat less beautiful

when in flower than the oriental species. Ernest H. Wilson, just back from Korea, has brought a new *Forsythia*, which he thinks will be valued highly for the ornamental character of its foliage. He has seen only a few scattering flowers, but he believes that the blooms are about like those of kinds already known.

SANGUINARIA CANADENSIS.

The Canadian Bloodroot is a beautiful plant for naturalizing in cool soil, and may be grown in company with the smaller of our native ferns under the shade of deciduous trees. There it will make itself at home, and the less disturbance it gets, the better will it prosper. When the first of its soft glaucous leaves begin to appear, the Bloodroot shoots up 6-inch stems, each of which bears a large poppy-like flower of pure white with a centre of golden stamens. Though the Bloodroot prefers a rich vegetable mould, such as that in which it lives in the deep wood bottoms of Canadian forests, it is not fastidious, and will do in a half-shaded border if given plenty of leaf-mould or some peat and very old manure.—*The Garden*.

LOCAL AND GENERAL NEWS

WASHINGTON, D. C.

Otto Schoeps, formerly with Small's, but who has been employed in Buffalo for a year or more, is now with Gude Bros.

William F. Gude was seen downtown last week. He is gradually regaining his health although it will probably be many weeks yet before he will be able to return to business.

The next meeting of the Florists' Club of Washington is scheduled for May 7, at Schmid's Hall, 712 Twelfth street, Northwest. The meeting night has been changed from Tuesday to Wednesday. The entertainment committee is working on a few good stunts for that night.

NEW YORK.

A daughter was born in the home of Mr. and Mrs. James McHutchison on March 29. Both mother and daughter are doing well.

During the last four weeks, McHutchison & Co. has received over 1,950 cases and bales of nursery stock from Holland, which are now all sold. This rush was due to the Hollanders getting rid of the varieties grown for American trade before the door was closed.

Next week, the first raffia shipments are expected to arrive; the first since a few months before the war began. The embargo on raffia still continues, but these shipments were ordered released by the U. S. War Department, to whom McHutchison & Company turned over their entire stock of raffia when this country entered the war. It was used for camouflage purposes in France.

PHILADELPHIA.

Frank M. Ross, the "I serve" retailer of Philadelphia, has been out planting potatoes on his farm in Bucks County. Hard on the muscles, but he swears he likes it. Atta boy! Be young again.

John Westcott thinks the proper thing for the growers to do when they have anything left at Christmas or Easter is to let the year in and year out customers have it for next to nothing instead of throwing it on the street for next to nothing thus breaking up prices and friendship.

Mail service from Rotterdam is slightly better, but not much. A mislabeled from Howard M. Earl dated March 24th reached us April 26th. Six months ago a letter from the same point took six weeks. The British authorities seem to be still sending the

continental mail bags from London around to the north of Scotland to be leisurely censored, and then sent on their way to America. And we all thought the war was over November 11th! Howard sends his kind regards to all and was delighted with the glorious spring flowers from Amsterdam to Rotterdam—Crocuses, hyacinths, tulips—in full bloom, and glorious harbingers of spring!

Edward H. Flood, Jr., has returned from a two years' sojourn in France with the U. S. Army. After a while at the old homestead at Alco, N. Y., he has gone to rusticate a little with relatives at Manayunk, Pa. Later he will take up his old duties with his father in the New York office of the Johnston Brokerage Co. This company he knows from A to Z and will be welcome back at his old desk. If you need any greenhouse glass you know where to go. Nuff sed.

The Florists' Club committee on the "V" war loan is as follows: Robert Kift, chairman; Frank Ross, John Habermehl, A. M. Campbell, George Burton, Mark P. Mills, Victor Ridenour, E. R. Martin, W. K. Harris, Chas. E. Meehan, E. J. Fancourt, Edward Reid, Bruce Griffin, E. W. Gaehring, Charles H. Grakelow, John C. Gracey, Wm. B. Westcott. All of these gentlemen are live wires and will make a good showing by the wind-up. They are all patriots to the finish.

One of our Philadelphia seed trade boys arrived at New York on the S. S. "Kroonland" April 29th, from the front. He was one of the first to enlist and acquired distinction and promotion in the service. He is John H. Earl, oldest son of Howard A. Earl and we all rejoice at his return home. He met his father in Paris before he left on his homeward journey, and cheered that veteran seedsman with a sight of him. His younger brother, Douglas, is still in France, having decided to take a trip with his father who is making a business tour of Europe at the present time.

On asking Mr. Pennock how long he had been in the wholesale cut flower business he said that he became associated with his brother, Charles E. Pennock in 1887, the partnership lapsing on the latter's death in 1891, since which time he has continued the business at first personally but later under corporate conditions. Mr. Pennock has, therefore, been continually in the wholesale field for thirty-two years

and adding the six earlier years of the brother Charles (1881 to 1887), makes the business of the Pennock Company thirty-eight years old; and few establishments have a finer record. They have been the leaders in their line for probity, progressiveness and sterling worth since the start. We extend greetings and congratulations.

We came across an interesting price list of the S. S. Pennock Co. the other day. It is dated Easter, 1896—23 years ago. Among the roses offered are Ulrich Brunner, Mrs. John Laing, Catherine Wermet, Bride, Bridesmaid, Kaiserin Augusta Victoria, La France, Perle des Jardins, Niphetos, Meteor, General Jacqueminot and American Beauty. Not one of these are today on the list of commercial roses for cut flowers except American Beauty—showing that that old standby has certainly held its own against all comers to a remarkable degree. The Easter prices then ran from six to ten per hundred on all roses except Jacqueminot—which was quoted at twenty and Brunner and Beauty at twenty-five to thirty-five. Carnations were quoted two fifty to four, which will make the grower of today smile when he thinks of the eight to ten of 1919. Valley brought three to four which is not so different to the regular of a few years ago. Mignonette two, sweet peas three, and sweet peas were a good deal of an Easter novelty twenty-three years ago. Callas are quoted at fifteen but our old friend Harris could only reach the eight to ten rung of the ladder. The greens list seems to have been a very minor proposition these days, the only items mentioned being Smilax and Cycas—leaves of the latter being quoted at two to three dollars per pair.

NEWS NOTES.

Clinton, Mass.—Fire swept about 25 acres of the land of the Metropolitan Water and Sewerage Board April 23d, destroying about 25,000 white pine trees of 12 to 14 years' growth, planted by state employees.

The area burned over is known as Carvilles Hill and lies easterly of the great Wachusett reservoir. The Clinton Fire Department was called out twice to fight the flames. It is stated that the blaze in the pine growth started from a fire on a nearby piece of swamp land which Lawrence A. Auscher is attempting to reclaim. State officials could not estimate the money damage.

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Albany, N. Y.—Danker.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont St.

Brooklyn, N. Y.—Wilson, 3-5 Greene Ave.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.

Cambridge, Mass.—John McKenzie, 1927
Mass. Ave.

Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Cleveland, O.—Adam Graham & Sons,
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Cleveland, O.—Knobles Bros., 1836 W. 26th
St.

Cleveland, O.—The Smith & Fetters Co.,
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Denver, Col.—Park Floral Co., 1643
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2141 Broadway.

New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.

New York—Dards, N. E. corner 44th St.
and Madison Ave.

New York—G. E. M. Stumpp, 761 Fifth
Ave.

New York—Kottmiller, 426 Madison Ave.
and 49th St., also Vanderbilt Hotel.

Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.

Philadelphia—F. M. Ross, 136 So. 52nd
St., 13 So. 60th St., 212 E. Girard Ave.

Philadelphia—Chas. H. Grakelow, Broad
St. at Cumberland.

Providence, R. I.—Johnston Bros., 38
Dorrance St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave. N.

St. Louis, Mo.—Fred C. Weber, 4326-28
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St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-
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Toronto, Can.—J. H. Dunlop, 8-10 West
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Washington, D. C.—Gude Bros., 1214 F
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Washington, D. C.—George H. Cooke,
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Costs only 90c. per Week
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Mr. H. E. Meader of Dover, N. H., vice-president of the American Gladiolus Society, has purchased the principal stock of the white gladiolus "Lilywhite" of A. E. Kunderd, Goshen, Ind. Mr. Meader is a progressive florist and has tested the variety for several years. "Lilywhite" will probably be offered to the trade, as well as sold at retail, the coming season, while Mr. Kunderd, the originator, is allowed to sell only at retail for the first three years from time of the sale. The price which Mr. Meader paid for that portion of the stock which he has secured is \$3,000.00. Considering that the shipment amounted to less than two full barrels, this is perhaps the highest price yet paid for a gladiolus. There have been higher prices paid for gladiolus stocks than in this instance but the quantity of bulbs was very much larger and the purchaser secured practically the entire stocks, whereas in this case the variety has already been considerable disseminated by Mr. Kunderd, as well as one-fifth of the stock is still reserved by him.

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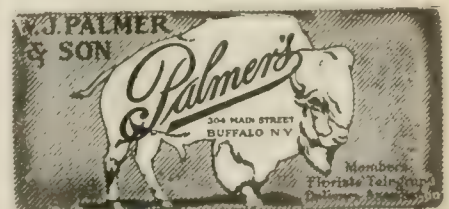
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	BOSTON Apr. 30		ST. LOUIS Apr. 28		PHILA. Apr. 28	
Roses						
Am Beauty, Special	25.00	to 50.00	50.00	to 60.00	50.00	to 75.00
" " Fancy and Extra	12.00	to 20.00	25.00	to 40.00	30.00	to 40.00
" " No. 1 and culls	2.00	to 4.00	5.00	to 15.00	8.00	to 20.00
Russell, Hadley	19.00	to 15.00	6.00	to 35.00	6.00	to 30.00
Killarney, Ward	2.00	to 8.00	6.00	to 12.00	3.00	to 10.00
Radiance, Taft, Key	2.00	to 8.00	3.00	to 8.00	6.00	to 15.00
Ophelia, Sunburst	4.00	to 12.00	6.00	to 12.00	3.00	to 12.00
Carnations	2.00	to 4.00	3.00	to 6.00	4.00	to 6.00
Cattleyas	100.00	to 150.00	60.00	to 75.00	75.00	to 100.00
Lilies, Longiflorum	20.00	to 25.00	20.00	to 25.00	15.00	to 25.00
Lilies, Speciosum	8.00	to 20.00				
Callas	20.00	to 25.00	15.00	to 20.00	15.00	to 25.00
Iris	8.00	to 10.00	8.00	to 10.00	7.00	to 10.00
Lily of the Valley	8.00	to 10.00	8.00	to 10.00	10.00	to 12.00
Snapdragon	8.00	to 20.00	2.00	to 6.00	8.00	to 15.00
Pansies	1.00	to 2.00			5.00	to 6.00
Daffodils	6.00	to 8.00	5.00	to 6.00	6.00	to 8.00
Calendula	2.00	to 4.00	2.00	to 5.00	3.00	to 4.00
Stocks			5.00	to 8.00		
Wallflowers						
Mignonette	2.00	to 6.00	3.00	to 4.00	3.00	to 5.00
Sweet Peas	1.00	to 3.00	.50	to 1.25	.50	to 2.00
Violets	.75	to 1.00	.35	to 1.00	1.00	to 1.50
Marguerites	3.00	to 5.00	1.50	to 2.00	.50	to .75
Gardenias	25.00	to 35.00			30.00	to 40.00
Adiantum	1.00	to 1.50	1.00	to 1.50	1.50	to 2.00
Gladioli	16.00	to 25.00	12.00	to 40.00		
Asparagus Plumosus, & Spreng. (100 Bchs.)	35.00	to 50.00	35.00	to 100.00	60.00	to 75.00

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This fluid destroys weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

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WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Apr. 28		CHICAGO Apr. 28		BUFFALO Apr. 28		PITTSBURG Apr. 28	
Roses								
Am. Beauty, Special.....	50.00	to 75.00	40.00	to 60.00	40.00	to 60.00	60.00	to 75.00
“ “ Fancy and Extra.....	30.00	to 40.00	30.00	to 40.00	30.00	to 40.00	30.00	to 50.00
“ “ No. 1 and culls.....	12.00	to 20.00	10.00	to 25.00	5.00	to 15.00	6.00	to 15.00
Russell, Hadley.....	10.00	to 35.00	6.00	to 25.00	10.00	to 15.00	10.00	to 30.00
Killarney, Ward.....	10.00	to 30.00	6.00	to 12.00	3.00	to 12.00	6.00	to 15.00
Radiance, Taft, Key.....	10.00	to 35.00	5.00	to 25.00	4.00	to 12.00	6.00	to 15.00
Ophelia, Sunburst.....	10.00	to 35.00	6.00	to 15.00	6.00	to 12.00	8.00	to 20.00
Carnations	6.00	to 10.00	3.00	to 6.00	4.00	to 6.00	8.00	to 10.00
Cattleyas.....	75.00	to 100.00	35.00	to 60.00	75.00	to 85.00	100.00	to 125.00
Lilies, Longiflorum.....	20.00	to 25.00	20.00	to 30.00	15.00	to 20.00	20.00	to 25.00
Lilies, Speciosum.....	.....	.....	.....	.....	4.00	to 10.00	.....	.....
Callas.....	15.00	to 20.00	12.00	to 20.00	15.00	to 25.00	20.00	to 25.00
Iris.....	15.00	to 20.00	2.00	to 4.00	8.00	to 10.00	10.00	to 12.00
Lily of the Valley.....	4.00	to 8.00	5.00	to 6.00	8.00	to 10.00	10.00	to 12.00
Snapdragon.....	8.00	to 20.00	10.00	to 15.00	6.00	to 15.00	6.00	to 10.00
Pansies.....	1.00	to 1.50	1.00	to 2.00	.50	to 1.00	4.00	to 6.00
Daffodils.....	2.00	to 4.00	3.00	to 6.00	5.00	to 6.00	2.00	to 4.00
Calendula.....	2.00	to 3.00	3.00	to 6.00	2.00	to 5.00	2.50	to 5.00
Stocks.....	6.00	to 8.00	6.00	to 12.00	3.00	to 5.00	.....	.....
Wallflowers.....	.....	.....	1.00	to 2.00	.....	.....	.....	.....
Mignonette.....	.....	.....	8.00	to 12.00	3.00	to 6.00	4.00	to 6.00
Sweet Peas.....	1.50	to 3.00	1.00	to 3.00	.75	to 2.00	1.00	to 3.00
Violets.....	2.00	to 2.00	1.00	to 2.00	.75	to 1.00	.75	to 1.00
Marguerites.....	2.00	to 3.00	1.00	to 2.00	1.00	to 1.50	2.00	to 4.00
Gardenias.....	.....	.....	25.00	to 30.00	20.00	to 30.00	.....	.....
Adiantum.....	.....	.....	1.00	to 1.50	1.00	to 1.00	1.50	to 2.00
Gladioli.....	.....	.....	20.00	to 25.00	.....	.....	.....	.....
Asparagus Plu. & Spren. (100 Bhs.)	25.00	to 50.00	50.00	to 100.00	35.00	to 50.00	40.00	to 65.00

Flower Market Reports

The condition of the market has not changed much since our last report. There is an over-abundance in all lines, with a little less demand than last week. The most plentiful items are roses, sweet peas and bulbous stock. Shipping trade is good.

The cold weather at the end of last week put a stop to the terrible oversupply of stock of all kinds which threatened to disrupt the market. Business has kept up after Easter better than formerly because of the increased number of wedding decorations. The stores had plenty of stock to pick from and prices were down to rock bottom. Roses could be had at as low as \$2 per hundred. Sweet peas are no longer good unless used the day they are picked. Violets are passing and spring flowers are undesirable and almost without price. Carnations are plentiful and are bringing good returns, but they also are on the wane.

Flowers were never seen in finer form in this market than they showed up last week. Roses especially were really wonderful. The Russells and Hadleys

New England Florist Supply Co.

276 Devonshire Street

BOSTON, MASS.

Telephones: Fort Hill 3469 and 3135.

Open 6 a. m. to 7 p. m.

and Columbias especially were of exhibition quality; but all along the line everything was good. Carnations also were of top notch quality, as a rule; but in smaller supply than roses. There was a fine showing of sweet peas, Spanish iris, delphinium, snapdragon, and other seasonable specialties; and all of these were above the usual grade as to quality. Cattleyas and gardenias were rather on the scarce side and the latter seems to be about over. A few tulips and daffodils were to be seen but these did not cut nearly the figure they usually do at this season of the year. Prices were moderate and as is usual for a post-Easter week the demand was rather light; but everything cleaned up pretty well.

WAR TRADE BOARD.

The War Trade Board has withdrawn its Enemy Trading Lists, and hereafter florists and all others in the United States desiring to do so may freely trade and communicate with

persons in foreign countries heretofore blacklisted because of enemy affiliations or because of failure to live up to all of the conditions imposed by the United States and the governments associated with us in the war respecting trading with the enemy. The removal of the lists does not in any way modify the existing restrictions placed upon trading with persons, firms or corporations in Germany or Hungary. The issuance of the enemy trading lists by the United States and the Associated Governments had the effect of cutting off communications with persons, firms and corporations in the countries to the south of us and in neutral European countries. Following the signing of the armistice, however, every effort was made to bring conditions of trade and commerce back to normal, and the withdrawal of these lists is a step in that direction. However, if necessary, the government will reimpose the conditions of the Trading with the Enemy Law and again institute the enemy trading lists and the trade prohibitions.

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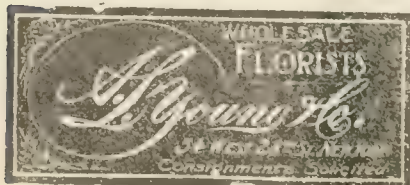
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NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Part of Week ending Apr. 26 1919		First Part of Week beginning Apr. 28 1919	
American Beauty, Special	75.00	to 125.00	35.00	to 75.00
" " Fancy and Extra	25.00	to 75.00	20.00	to 30.00
" " No. 1 and culls	5.00	to 40.00	3.00	to 12.00
Russell, Hadley	8.00	to 75.00	4.00	to 30.00
Killarney, Ward	4.00	to 15.00	4.00	to 10.00
Radiance, Taft, Key	5.00	to 35.00	4.00	to 20.00
Ophelia, Sunburst	5.00	to 30.00	3.00	to 15.00
Carnations	8.00	to 15.00	5.00	to 8.00
Cattleyas	50.00	to 150.00	50.00	to 100.00

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We have a numerous clientele of New York City buyers and the demand exceeds our supply. This is especially true of Roses. We have every facility and abundant means and best returns are assured for stock consigned to us.

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When writing Advertisers kindly mention Horticulture

CUTWORMS IN GREENHOUSES
AND OUTSIDE.

In discussing cutworms the state entomologist of Rhode Island speaks particularly of the climbing kinds which attack the choicest blooms of chrysanthemums, carnations and the newly opened leaves of smilax. These worms do a considerable amount of climbing in order to reach these tender and succulent parts. Some species become great nuisances through their habit of climbing fruit trees and eating the opening buds and blossoms.

Cutworms when full grown are from one and a half to two inches in length. They have three pairs of true legs and five pairs of false or prolegs. Their bodies are thick and taper a little towards the ends. They are naked caterpillars, rather greasy looking, and are of a dirty brownish, grayish, or greenish color, sometimes having obscure markings and oblique lines. When taken from the ground, or when disturbed while feeding, they curl up into a ring.

The moths are mostly inconspicuous, with pale grayish-brown fore wings and lighter under wings. They fly at night and remain in sheltered spots during the day where they so resemble their surroundings, such as the bark of trees, that they are very difficult to see. The fact that they have bright and shining eyes and that they fly only at night accounts for their common name; owl moths. The moths do no damage, but feed chiefly upon the nectar of flowers.

There are about fifty species of cutworms in New England; most of them live over winter in the larvae stage. The larvae begin their work out of doors about the first of May. About the last of June many of them bury

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MISCELLANEOUS

Lilies, Longiflorum.....	
Lilies, Speciosum.....	
Callas.....	
Iris.....	
Lily of the Valley.....	
Snappdragon.....	
Pansies.....	
Daffodils.....	
Calendula.....	
Stocks.....	
Wallflowers.....	
Mignonette.....	
Sweet Peas.....	
Violets.....	
Marguerites.....	
Gardenias.....	
Adiantum.....	
Gladioli.....	
Asparagus Plumosus, & Sprea (100 bunches).....	

Last Part of Week
ending Apr. 26
1919First Part of Week
beginning Apr. 28
1919

25.00 to 35.00	12.00 to 15.00
25.00 to 40.00	15.00 to 20.00
8.00 to 12.00	6.00 to 12.00
5.00 to 10.00	5.00 to 8.00
5.00 to 15.00	3.00 to 8.00
1.00 to 1.50	1.00 to 1.50
6.00 to 8.00	5.00 to 6.00
3.00 to 6.00	2.00 to 4.00
3.00 to 5.00	3.00 to 6.00
2.00 to 6.00	2.00 to 5.00
2.00 to 5.00	1.00 to 3.00
1.50 to 3.00	.75 to 1.50
1.00 to 3.00	1.00 to 3.00
10.00 to 35.00	8.00 to 35.00
1.00 to 1.25	2.00 to 1.25
8.00 to 15.00	6.00 to 12.00
15.00 to 35.00	15.00 to 35.00

themselves and change into moths which lay eggs and start a new cycle.

Poisoned bran mash is a successful remedy. It is made by mixing Paris Green with bran at the rate of one heaping teaspoonful to a quart of the bran and then mixing same with a little water sweetened with cheap sugar or molasses. This mixture is placed on the ground in little dabs here and there in the vicinity of plants liable to injury. This method is especially useful in greenhouses. A single application apparently destroyed every cutworm in a Providence greenhouse where a large crop of carnations were being rapidly ruined.

Where grass land is to be plowed under for the planting of other crops it is often wise to thoroughly spray the sod with arsenate of lead a few days before turning over. This will kill the greater proportion of the larvae and nearly all of the survivors may be destroyed by applying a bran mash mixture on the harrowed field and allowing it to remain unplanted for a few days. Spraying of the grass or weed grown borders of fields about to be cultivated will also help to keep these pests down. Repeated harrowing and the turning in of chickens on to newly plowed land are other means which may be employed but, of course, chickens must be kept out of fields where poisoned bait has been scattered.

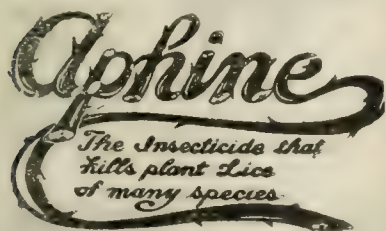
Sometimes where cutworms are numerous, it is well to dip the vegetables about to be planted into an arsenate of lead solution.

For the climbing varieties it is sometimes necessary to tie bands of cotton batting or inverted cardboard cones about the trunks of small fruit trees to prevent them from being stripped of their buds. The application of Tree Tanglefoot would probably be a good preventive measure. Since cutworms have been known to

do appreciable injury to very young trees by feeding on the tender bark just below such bands as are suggested above, it may at times be more economical and effective to dig out the larvae from the ground around the trees and feed them to the chickens.

Cutworms have many enemies both from a predaceous and a parasitic standpoint and it is well that this is so for otherwise their depredations in grass fields would make the raising of hay almost impossible. Among the birds the following are persistent feeders on cutworms: meadow lark, robin, grackle, crow, red-winged blackbird, starling, and catbird.

The variegated cutworm is a cosmopolitan insect, being found throughout Europe as well as the United States and Canada. It is one of the most common of the cutworms in the garden and it is the one generally found in greenhouses. In greenhouses, it may be found in all stages during a greater part of the year.



The Recognized Standard Insecticide.
A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$2.50.

FUNGINE

For mildew, rust and other blights affecting flowers, fruits and vegetables.

Quart, \$1.00; Gallon, \$2.50.

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For eel worms, angle worms and other worms working in the soil.

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Cattle Manure
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The Florists' standard of uniform high quality for over ten years.
Specify: **WIZARD BRAND** in your supply house order, or write us direct for prices and freight rates.

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World's Oldest and Largest
Manufacturers of

FLOWER POTS

WHY?

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Cambridge, Mass.

FLORISTS' CLUB OF PHILADELPHIA.

The display feature of the next monthly meeting of the Florists' Club of Philadelphia to be held in the roof garden of the Hotel Adelphia on Tuesday, May 6th, at 8 P. M., will be an exhibition of new varieties of forcing roses.

Exhibits have been assured from John H. Dunlop, Toronto, Canada; E. G. Hill, Richmond, Ind.; Frank R. Pierson, Tarrytown, N. Y.; John Cook, Baltimore, Md., and Robert Scott & Son, Sharon Hill, Pa. We also expect the new varieties of the Montgomery Bros. Co., Hadley, Mass. In addition there will be vases of special stock of standard varieties from the local growers whose products have made this city famous.

The literary feature will be an address by Wallace R. Pierson, Cromwell, Conn., on standard and new varieties. His knowledge and experience as a grower and disseminator of new roses, will make this a most interesting and valuable treatise. Chas. H. Totty, Madison, N. J., will also be present.

An invitation is extended to all in the craft, especially women in the business who are now admitted to membership in the club.

E. A. HARVEY, Pres.

ROBERT KIFT, Secy.

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Bulbs of all descriptions. Write for prices.
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For the best Up-to-Date Cannas, get new price list. THE CONARD & JONES CO., West Grove, Pa.

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Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 postpaid. I. L. PILLSBURY, Galesburg, Ill.

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Strong rooted cuttings of Oconto, Harvard, Glow, Razer, Polly Rose, Yondota, Helen Lee, Chieftain, Chrysolora, and all standard sorts. \$2.00 per 100, \$15.00 per 1000. Ready now. Order today.
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DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell. \$10.00 per clump. Cash with order.
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New Peony Dahlia—John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

GLASS.

Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

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Iris Purple Lace; a deep pansy purple self, the prominent white haft, laced with purple and a carved shape that gives an appearance of unusual width are distinctive. It proves very attractive to the visitor. 30 in. 30 plants, \$15.00. In Iris time select a Seedling for introduction. THE GLEN ROAD IRIS GARDENS, Wellesley Farms, Mass.

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HASSALL & CO., Orchid Growers and Raisers, Southgate, London, England. Cattleyas and Laelio-Cattleyas our specialty. One trial order solicited.

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200,000 large, stocky, September transplanted, field grown, blooming Pansy plants, superb strain. All salable stock. Satisfaction guaranteed. \$150 per 100, \$14.00 per 1000. Ready now. Cash with order. BRILL CELERY GARDENS, Kalamazoo, Mich.

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Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

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Just Arrived, crop 1918 winter flowering SWEET PEAS, New Zealand grown, the large flowering waved or Spencer type. We have been very fortunate to secure the entire crop of one of the best growers in New Zealand. New Zealand grown seed has always produced the earliest and best blooms, and seed started in August will produce flowers from Thanksgiving until March; requiring a low temperature, these make an ideal crop for the Florist this year. Scarlet, always a good seller. Finest Mixture, all the best colors. Pink and White, Blanche Ferry type. Yarrawa (true), bright rose pink with light wings. Write for further particulars.
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Live Sphagnum moss, orchid peat and orchid baskets always on hand. LAGER & HURRELL, Summit, N. J.

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Flowering and Foliage Vines, choice collection. Large Specimen, Pot and Tub grown for immediate effect; also Climbing Roses. J. H. TROY, Mount Hissarlik Nursery, New Rochelle, N. Y.

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Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

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For Greenhouse
Glazing

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F. O. PIERCE CO.

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Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

Dreer's Peerless Glazing Points For Greenhouses.

FULL
SIZE
No 2

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 50c. postpaid.

Samples free.

HENRY A. DREER,
134 Chestnut Street,
Philadelphia.

THE KROESCHELL

Is making the most wonderful Greenhouse heating record in the world. Florists who have used other makes are continually giving the Kroeschell the highest praise.

ONE OF BOSTON'S WELL KNOWN GROWERS

The Kroeschell has taken the place of four cast iron boilers at a big saving in coal. We are using it now for the fifth year. The longer we use it the better we like it.

(Signed) A. B. KNOWLTON,
NORTH GRAFTON, MASS.



Kroeschell Bros Co., 466 W. Erie St.
CHICAGO

THE KROESCHELL

Has replaced hundreds of cast iron boilers. In every case higher temperatures are secured with the Kroeschell, with the same piping and with less fuel.

THE PLANT KING OF THE WEST

I have used Kroeschell Boilers ever since I built my first greenhouse. They have always given me the very best satisfaction and I believe them as good boilers as money can buy.

(Signed) F. OECHSLIN,
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THE THINGS THAT COUNT

Our Guarantee

Neat in appearance

Strong in design

Easy, very easy to operate. Prices reasonable. Entire satisfaction.

That's what you will find in Advance Ventilating Apparatus and Greenhouse Fittings.

Write today for Catalogue.

ADVANCE CO., Richmond, Ind.



DREER'S

FLORIST SPECIALTIES
New Brand New Style
"RIVERTON" HOSE

Furnished in lengths up to 500 ft. without seam or joint.

The HOSE for the FLORIST

3/4-inch, per ft., 19 c.

Reel of 500 ft. " 18 1/2 c.

2 Reels, 1000 ft. " 18 c.

1/2-inch, " 16 c.

Reels, 500 ft., " 15 1/2 c.

Couplings furnished with-

out charge

HENRY A. DREER

714-716 Chestnut St.,

PHILADELPHIA, PA.



EXPERIENCES OF A WOMAN GREENHOUSE GROWER.

The number of women engaged in commercial growing of plants under glass is doubtless much larger than is usually realized. Julia R. Burden, of the Woman's National Farm and Garden Association, tells in a bulletin of that organization something about her experiences and methods. She said that she first took a course in floriculture and in greenhouse construction at the New York College of Agriculture. Then she got the advice of skilled men in regard to the selection of the plants to grow. The kinds decided upon were carnations, snapdragons, lilies, azaleas, cyclamen, vincas, and primroses, as well as bedding plants of various kinds, such as geraniums, petunias, asters and pansies.

In the winter of 1914 she interviewed a representative of the King construction company, with whom a house and heating system were worked out. The hot water heating plan was adopted for three reasons, possible economy in fuel consumption, the possible elimination of a night fireman, and the relatively greater desirability of hot water heating as affecting the plants. In describing her outfit, Mrs. Burden goes on to say:

"My plant consists of two even span houses, each 100 ft. x 32 ft., and a small propagating house. At one end is a large and commodious headhouse, one side arranged to store a large supply of dirt for winter use, the other

equipped with shelves conveniently arranged for the storage of pots, paper, boxes, etc. In the center is a small office. I contracted with the King Construction Co. for the material but the houses and piping were erected by a local contractor.

"After many vicissitudes the plant was finished in October, 1915. The first trying out was a critical and exciting time. Experience is certainly the best teacher, but alas! it is an expensive one. I should like to give a bit of advice to anyone considering the erection of greenhouses. Do not try to economize and have the local plumbers put in the piping. It is far better to pay more and have it done by the regular greenhouse construction men.

"Another point that gave me considerable food for thought was the correct position for the houses geographically. I sought the advice of men long in the business. The more I asked the more perplexed I became, for each one advised me differently. Finally I concluded to follow my own judgment and placed the houses north and south. In this I think I made no mistake. In laying out a plant of this kind one must be governed by local conditions and environment.

"The man I selected for manager had previously owned and operated a commercial greenhouse in our town. As he was free to take a position, having sold out his business, he accepted the offer to come to me as working manager. Our business has gradually grown and we are becoming known in

the wholesale trade world so that we have no difficulty in disposing of our surplus stock. The retail trade also has been very active and we are patronized by many from the small towns and rural districts within a radius of twelve miles or more.

"This is the third year of my venture. At times I have felt depressed and disheartened over the whole affair, as its path has not been as rosy as it may appear, but I have kept on feeling that some inspiration might come and that the future would bring some real reason for the existence of the enterprise.

"Now the dawn seems to be breaking. Ideas and hopes are surging through my mind. I am forcibly impressed with the fact that wonderful opportunities await women in horticulture. It is true that already women have gone into this branch of business to some extent, but there is no reason why they should not go into it more extensively. If managed by a woman with some business training, the business cannot help but develop, grow and be profitable.

"In this article I have given the merest outline of my experience and work. Many ideas and thoughts are in my mind which I am reluctant to put before the public at present as they are immature and will have to be worked out in practice.

"Should any reader be interested and wish to embark in work along the lines I have described, I shall be glad to answer questions or give humble advice as far as I am able."



FOR MOTHERS' DAY —SAMUEL MURRAY—

The Leading Flower Establishment of
KANSAS CITY

Will arrange and deliver orders for flowers or
plants for the trade in any part of the Middle
West. All goods and service strictly first-class

Member Florists' Telegraph Delivery Association

—SAMUEL MURRAY—

1017 Grand Avenue

KANSAS CITY, MISSOURI

HORTICULTURE

Vol. XXIX

MAY 10, 1919

No. 19

THE NEW POMPON CHRYSANTHEMUMS

CHRISTMAS GOLD NOVEMBER PEARL
BECKY McLANE

THE NEW SINGLES

MRS. E. M. HORNE MOLLY WHITMORE
PEGGY BULKELEY

THE NEW ANEMONES

VOLUNTEER PINK LADY

AND

THE NEW CHRYSANTHEMUM

GOLDEN MISTLETOE

Are our offerings of the year 1919

A. N. PIERSON, Inc.
CROMWELL, CONN.

Russell



Still continuing in quantity with us and of the same splendid quality, in all lengths.

	100
Special	\$25.00
Fancy	20.00
Extra	15.00
First	10.00
Second	6.00

Some exceptionally choice long stemmed Russells at \$30.00.

Everything in Cut Flowers, Plants, Greens, Ribbons and Supplies.

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7 A. M. to 5 P. M.

S. S. PENNOCK COMPANY

The Wholesale Florists of Philadelphia

NEW YORK
117 W. 28th St.

PHILADELPHIA
1608-1620 Ludlow St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON, 1216 H St., N. W.

OWING TO WAR CONDITIONS last year and consequent uncertainties, we carried over a surplus of our

Two New Roses ROSALIND and SILVIA

The stock has been carried over in cold houses during the winter, and is now in practically dormant condition. The plants are very strong and healthy, and can be planted at once, if the houses are ready, or can be shifted into 4-inch pots for later planting. They will make splendid stock, especially for early planting, as they are very strong and healthy, and are ready to make a strong growth. We offer the stock as long as unsold at the prices named below.

ROSALIND (A Glorified Ophelia)—The particular value of this variety lies in its exquisite coloring, which is quite different from Ophelia. When the buds first show color they are bright coral, which changes to apricot-pink as the buds develop, and when fully developed they are a most beautiful shell-pink. The flower is much more double than Ophelia, having at least one-third more petals. It is also delightfully fragrant. In habit of growth it is identical with Ophelia, from which it is a sport. Rosalind originated with us three years ago and, when grown side by side with Ophelia, it is far superior to that variety.

Awarded first prize at the International Flower Show, New York, in March, 1917, for best new rose.

Awarded additional silver medal at same show for display of Rosalind.

Awarded silver medal by the Horticultural Society of New York.

Awarded silver medal by the Tarrytown Horticultural Society.

Awarded, also, numerous certificates.

Strong plants, 2 1/4-inch pots, \$150.00 per 1,000.

Extra heavy plants, 3 1/2-inch pots, \$20.00 per 100.

SILVIA (Yellow Ophelia)—This is another Beautiful sport of Ophelia which originated with us. The buds are long and pointed, and are a beautiful sulphur-yellow, which changes to creamy yellow as the flower opens, and when fully developed are pure waxy white. It is a flower of unusual size when fully expanded—five inches in diameter. It resembles the popular hardy climber Silver Moon, showing the same pronounced cluster of yellow stamens in the center. Exquisite in bud and unusually distinct and unique in the open flower.

Extra strong plants, 3 1/2-inch pots, \$20.00 per 100.

F. R. PIERSON, Tarrytown, N. Y.

GERANIUMS

We have a good assortment of single and double varieties in 2-inch pots at \$2.75 per 100—\$25.00 per 1000.

CANNAS

Three inch Pot Plants. Wyoming, Uncle Sam, Florence Vaughan, Maros, Feuermeer, Gustave Gumpper, Rubin, \$1.00 per dozen—\$5.00 per 100.

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LIST OF ADVERTISERS

Page	Page	Page	Page	Page
Advance Co.....459	Childs, John Lewis.....447	Graham & Son, A.....453	McHutchison Co.....439-440	Pierson, F. R.....437
Alexander, J. K.....440	Clarke, D. Sons.....452	Grakelow, Chas. H.....453	McKenzie, John.....453	Pulverized Manure Co.....457
Allen, J. K.....456	Conn, J. J.....456	H.....453	Marshall, W. E. & Co.....438	Randall Flower Shop.....453
American Bulb Co.....438	Cooke, Geo. H.....452	Grey & Co., T. J.....438	Michell, H. F. Co.....449	Reed & Keller.....456
American Forestry Co.....447	Conard & Jones.....440	Gude Bros. Co.....452	Michigan Cut Flower Ex.....454	Reidel & Meyer.....456
Anderson, S. A.....453	Cowee, W. J.....454	Hart, Geo. B.....454	Murray, Samuel.....452	Reid, Edw.....454
Aphine Mfg. Co.....457	Craig Co., Robt. son Printing Co.....454	Heistad, H.....439		Reuter, L. J. Co.....440
Barrows, H. H.....440	Danker.....452	Hess & Swoboda.....453		Rice & Co., Jerome B.....438
Bay State Nurseries.....439	Dards.....452	Hewes & Co., A. H.....458		Robinson, Henry M. Co.....456
Bobbink & Atkins.....439	Dreer, H. A.....457-458	Hill Co., E. G.....454		Robinson, H. M. & Co.....454
Boddington Co., Inc., A. T.....449	Dunlop, John H.....453	Hill, D. Nursery Co.....447		Roehrs, J. Co.....440
Bolgiano & Son.....438	Dysart, R.....456	Howard, W. D.....447		Roland, Thomas.....453
Boston Floral Supply Co.....456	Edwards Folding Box Co.....454	Irwin, R. J.....438		Ross, F. M.....453
Breck, J. & Sons.....438	Elm City Nurseries.....440	Johnston Bros.....452		Sheridan, W. F.....456
Breitmeyers, J. Sons.....452	Farquhar, R. & J. Co.....438	Kasting, F. F. Co.....454		Siebrecht, Geo. C.....456
Budlong, J. A.....454	Fengar, E. W.....439	Kelway & Son.....438		Siggers & Siggers.....459
Bunyard, A. T.....452	Ford, M. C.....456	Kervan Co.....456		Skidelsky, S. S. & Co.....438
Burlington Willow Ware Co.....451	Ford, W. P.....456	Knoble Bros.....453		Smith, Elmer D. & Co.....440
Burnett Bros.....414	Frement, H. E.....456	Kroeschell Bros.....459		Smith, W. & T. Nursery Co.....447
Barpee, W. A. & Co.....438		Kuebler, W. H.....456		Smith, The Florist.....452
Carter's Tested Seeds, Inc.....438	Galvin Thos. F.....453	Kottmiller.....452		Smith & Felters Co.....453
	Gasser Co., J. M.....453	Lemon Oil Co.....455		
		Liggit, C. U.....439		
		McCarthy & Co., N. F.....447		

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COAL TO BE CHEAPER

There is a very different coal situation than that which existed last year at this time, particularly as concerns soft coal. There seems to be an abundance of coal and at satisfactory prices. Dealers are offering good grades of soft coal from \$2.75 to \$3.10 at the mines. This, however, is for net tons of 2,000 pounds. The coal was formerly sold by the long ton of 2,240, but the short ton is now used altogether to figure on. The prices quoted are for immediate delivery or for coal contracted for under an agreement to take one-third of the total supply in the months of May and June.

The situation is one to please greenhouse men who have extensive ranges and use large amounts of soft coal. The freight rates are higher than they were last season and yet the cost of the coal delivered in Boston will be less by one-half than a year ago.

The evident anxiety of the dealers to make contracts leads to the belief that no advance will be made in the price this summer and that there may possibly be a further cut. There would seem to be no reason why florists or the growers of vegetables under glass should

go farther at this time than to make prudent purchases. It is difficult to see why they should tie up a large amount of capital by buying and paying for the whole year's supply of fuel. They can use the money to as good advantage as the coal men. With all other commodities coming down in cost and ample supplies of most materials on hand, HORTICULTURE fails to see any tangible reason for price advances or even for the maintaining of present prices as regards soft coal.

It is harder to make predictions as to hard coal, which is used largely by the smaller greenhouse men and on private places where a night fireman is not employed. The coal dealers are sitting tight, with hints of higher prices to come. Moreover, they are taking orders only on condition that the price paid shall be that which prevails when delivery is made. It is quite probable that the difference in price will persuade some growers to change over their heating plants to allow the use of soft coal. And there seems to be a disposition on the part of estate owners not to open up their houses except in a limited way until conditions are such that both coal and labor can be obtained for less money.

ARBORETUM AIDING NURSERYMEN

Nurserymen will be interested in some suggestions as to the propagation of Japanese cherry trees made by Prof. Charles S. Sargent of the Arnold Arboretum. After a brief introduction to the subject in the current bulletin, he goes on to say:

Prunus serrulata and its varieties have produced a number of forms with double flowers, and these are the hardiest and most valuable of the double-flowered Japanese Cherries which can be grown successfully in this climate. There are fourteen double-flowered named varieties of the Sargent Cherry in the Arboretum Collection, but only two or three of them are large enough to have flowered here. These double-flowered Cherries bloom two or three weeks later than the single-flowered trees, and from these may be expected some of the handsomest flowering trees which are hardy in the north. Although double-flowered Japanese Cherry-trees have been cultivated in the United States and Europe for fully sixty years, they have never grown to a large size or given much satisfaction in western gardens. The trouble has been in the stock on which these double-flowered plants have been grafted. The proper stock for them is naturally the single-flowered species of which they are varieties, and if such stock is used there can be little doubt that larger and healthier trees will be secured than have been obtained when other species have been used as stock in Japanese and in American and European nurseries. It is fortunate that the plants of the Sargent Cherry produce every year good crops of seeds in the Arboretum; these seeds are carefully gathered and widely distributed so that there is reason to hope that in a few years this tree will adorn many American parks and gardens and supply stock on which the handsomest of the double-flowered Cherries can be successfully grafted.

Prunus subhirtella is the Spring Cherry of the Japanese, which one traveler has described as the most delightful and floriferous of all Japanese Cherries. It is

a large shrub rather than a tree, and few plants can produce more flowers than the two large specimens in the Arboretum where they have been growing for twenty-five years. The flowers are drooping, pale pink becoming nearly white as they begin to fade. Those of no other single-flowered Cherry which has been grown in the gardens of western Japan although rare in those of Tokyo. Unfortunately it does not reproduce itself from seed, for the seedlings are those of a tall slender tree common in the forests of central Japan to which the name of *Prunus subhirtella* var. *ascendens* has been given. This is still a rare tree in cultivation and its value in this climate is not yet established. A form of the variety *ascendens* or *Prunus subhirtella* has pendulous branches and is the well known Japanese Weeping Cherry-tree (var. *pendula*) now common in American gardens.

Prunus subhirtella can be slowly propagated by soft wood cuttings, but the best way to increase it is by grafting or budding it on its own seedlings. Seeds are produced in quantity on the Arboretum plants and will be distributed to nurserymen anxious to obtain stock on which to work the true *P. subhirtella*. When the stocks are ready the Arboretum will supply a moderate number of grafts, and the nurseryman who will make it his business to produce a supply of this beautiful Cherry for American gardens will do a good thing for this country and incidentally for himself.

Prunus yedoensis is the Cherry-tree which has been planted in great numbers in the squares, parks and temple grounds of Tokyo. It is a fast-growing short-lived tree rarely fifty feet high, with a short trunk not more than a foot in diameter and wide-spreading or erect branches. The flowers are white and slightly fragrant, and are followed by abundant small black fruit. This Cherry reproduces itself from seed and there is therefore no reason why it should not be common in American gardens.

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IMPORTANT ANNOUNCEMENT

Edward I. Farrington has been selected as editor of *Horticulture* to succeed the late William J. Stewart. Mr. Farrington has had long training as a horticultural journalist. He was editor of *Suburban Life* for many years, and is well known as a writer and lecturer. We bespeak for him the same good will and hearty co-operation which the readers of *Horticulture* so generously extended to Mr. Stewart.

WILLIAM W. CASTLE,
 President of the Horticulture Pub. Co.

CONTENTS

	Page
Coal to Be Cheaper.....	441
Arboretum Aiding Nurserymen.....	441
Editorials	442
The Valuable Japanese Yew.....	443
Rambling Observations of a Roving Gardener.....	444
National Publicity Campaign.....	445
Growing Dahlias Commercially.....	445
How to Cut Rose Blooms.....	445
A Worcester Florists' Plan.....	445
Trees and Shrubs That Flower Early.....	446
An Appeal and a Promise.....	446
Borrowed Ideas	447
Rose Growing	448
Starting a Florists' Business.....	448
Seed Trade	449
Marketing Peony Blooms.....	450
News and Gossip	451
Flowers by Telegraph.....	452
Flower Market Reports.....	455
Making a Lawn	458

showed before the war. Landscape gardeners report that orders are coming in rapidly, and one large concern in Boston has enough work already in hand or planned to last throughout the summer. It should be noted, however, that this is nearly all restoration work—simply the rehabilitating of gardens and grounds that have been neglected the past two or three years. The big work is waiting, but it is certain to come, which means good business for all classes of horticulturists for years ahead.

An opportunity
 In view of the wonderfully fine display made by the Japanese flowering cherries this spring, the announcement made by Prof. C. S. Sargent, director of the Arnold Arboretum, concerning the distribution of seeds and grafts is an important one for nurserymen in this country. These early flowering trees are being increasingly appreciated by the public and the demand undoubtedly will keep pace with any supply which may be offered. *Prunus subhirtella* is one of the handsomest of the cherries and a fine tree for private estates and public parks. The Arboretum is ready to distribute seeds, it is stated, and when the stocks have been grown will provide a moderate number of grafts. As Prof. Sargent says, any nurseryman who will make it his business to produce a supply of this beautiful cherry for American gardens will do a good thing for his country and doubtless, also, for himself.

Another protest

The Horticultural Society of Pasadena, California, has adopted strong resolutions calling on its local representative in Congress to secure a modification of Quarantine No. 37, prohibiting the importation of plants and bulbs. This is just one more of many such protests and is not likely to have any more effect upon the stubborn minds of the horticultural board in Washington. As Mr. E. C. Vick says in the *New York Sun*: "It may be a good thing to encourage the protection in America of many plants that are now imported, but there are other ways of doing it beside issuing a decree prohibiting the importation of any plants into the country except a very few. We are becoming tied down to so many regulations and restrictions that unless it ceases our 'home of the free' will have less freedom than any other country on earth." This statement is echoed by thousands of gardeners, both professionals and amateurs. They feel that if any person or body of persons desires to see erected a wall of high protection, they should be frank about the matter, and not try to obtain it under a mask of false pretenses. Perhaps there are those who feel that additional measures of protection from foreign plant pests are needed. But there are few who are not willing to admit that the regulation as it stands is illogical, and that there is no legitimate excuse for putting it into force, without giving ample time to allow the growers and dealers of this country to readjust the conditions under which they are working.

Looking ahead
 The outlook is good in all branches of horticulture, one of the most favorable indications being the apparent disposition of estate owners to restore their gardens and greenhouses to the well kept condition which they

THE VALUABLE JAPANESE YEW

At the end of another winter the Japanese yew, *Taxus cuspidata*, may still be considered one of the most desirable evergreens for gardens in the colder parts of the country. It has been said, with considerable authority, that this is the most valuable plant which Japan has given to New England. Certainly it is worthy more extensive use, as it is exceedingly decorative and not at all out of place in a formal garden. Apparently there are several distinct forms. One of the prettiest has a spreading top and grows as a large, vase-shaped bush. A form is grown in some American nurseries as the variety *capitata*. It has a single leader and a tree-like habit, making it desirable for those who want an upright rather than a bush-shaped yew. The variety *compacta* is the smallest and most compact form found here. It is said that the largest Japanese yew to be found in the country is growing on Long Island, where it was planted by Dr. George R. Hall in 1870. The adaptability of the Japanese yew may be judged from the fact that it has been reported hardy in both New Hampshire and Minnesota. It may be grown with perfect confi-

dence in sections where the English yew (*Taxus baccata*) and the native yew (*Taxus Canadensis*) are badly browned in cold winters.

There should also be a word of appreciation for the Japanese fir called *Abies homolepis* or *A. brachyphylla*, as it is perhaps more commonly known. This is one of the few good conifers adapted to the climate of New England and is almost as handsome as the splendid white fir of the western North America, *Abies concolor*. Its dark green leaves are silvery white on the lower surface and it has violet purple cones. There are specimens 55 feet high in the pinetum on the Hunnewell place at Wellesley and as the branches sweep the ground, they are most imposing objects. In Japan the tree is said to grow 100 feet tall and E. H. Wilson says that the mature trees resemble old specimens of the Cedars of Lebanon. The Japanese fir is a most excellent plant for the decoration of American gardens and is to be appreciated because of its hardy nature, as well as its remarkable beauty.



GOOD SPECIMEN OF JAPANESE YEW

RAMBLING OBSERVATIONS OF A ROVING GARDENER

The fragrant Korean *Viburnum*, *V. Carlesii*, has now been tested long enough in this country to show that it is perfectly hardy even in the climate of New England. It is certainly a valuable addition to the early flowering shrubs, yet possibly it has been praised too unreservedly in some of the magazines. It is not particularly beautiful as to habit or foliage, and therefore no great adornment to the garden, except when in bloom. Then, however, it has few rivals. All the flowers in the clusters do not open at the same time, and the combination of white blossoms and pink buds adds to the beauty of the plant. There seems to be a tendency to use this *viburnum* very freely, and as most gardeners are not familiar with it, some remarks by a writer in *The English Garden* may be appreciated.

He says: "*Viburnum Carlesii* is so fragrant and so short lived that I have taken to growing a few bushes in pots. I find they flower freely and respond willingly to a little judicious pruning. Moreover by keeping a plant or two in a cold corner, the short lived season of bloom is greatly prolonged, lasting until the lilacs begin. It is a great pity that the blooms of the *Viburnum Carlesii* so soon fade when out, not lasting well at all in water. Cannot some one give us a hybrid between the *Laurestinus* and *Viburnum Carlesii*? What a delightful shrub it might be."

Professor Sargent, of the Arnold Arboretum, has pointed out that the Japanese species, *V. bitchuense*, has been mistaken by Japanese botanists for *V. Carlesii*, and sent to this country and especially to Europe under the latter name. It is suggested that care be taken to obtain the right species. It is quite possible that the writer quoted is not growing the true *V. Carlesii*.

It will be rather a surprise to American gardeners to learn that *Magnolia macrophylla* is a hard tree to grow in England, soon dying out even at the Kew gardens, as it seems to suffer badly from spring frosts. It has proved perfectly hardy in Boston, where the temperature goes very much lower than in England. Apparently there are a few trees in England which have thrived, but they are very few.

This magnolia is an especially interesting tree and seems worthy of

wider cultivation in New England. It has the largest leaves and the largest flowers of any tree which grows outside of the tropics. A very good specimen is to be found at the Arnold Arboretum, and the fact is noted every year that the flowers have a remarkable attraction for the rose bugs, which sometimes almost fill the deep cups. The creamy white flowers are fragrant and sometimes nearly a foot in diameter. The leaves, which occasionally reach thirty inches in length are silvery white on the under side. This is a native American tree, coming from the southern states, and though hardy it should be given a sheltered spot, not so much to protect it from the cold as to shelter it from high winds, for otherwise these winds are likely to whip the immense leaves into shreds. *Magnolia macrophylla* is the last of the magnolias to bloom.

It is an interesting fact that some of the rather rare foreign trees brought to this country occasionally are found in private collections. While on a recent visit to Newport, the writer learned of a *Cercidiphyllum* of far greater size than any specimens to be found in a public collection. Newport has another interesting tree, in a Fernleaf Beech, which stands on the grounds of the Redwood Library. It is a rather interesting fact that no record can be found as to the origin of this tree, which is a very fine specimen. The fernleaf beech is a very good looking tree at all ages, being unusually symmetrical. If it is to be grown as a lawn tree, its lower branches should always be kept intact.

At Newport there is also an old specimen of the Yellowwood tree or *Virgillia*, and the gardeners say that while this tree is remarkably handsome and a fine ornament on large estates, it splits easily and therefore is often disfigured when it gets old. The breaking down of the limbs soon spoils the symmetry and general appearance of the trees. An attempt has been made to keep this specimen mentioned intact by the use of supporting rods, but unfortunately the bands were fastened around the limbs, with the result that the last state of the tree is worse than the first. There is one peculiar feature of the *Virgillia* which may not be commonly known, which is that it flowers only every

other year and that every tree in the whole country flowers the same season.

There is a warm discussion in some of the English papers about gardeners' wages. The following is presented by one land owner as expressing the views of those who hire garden help. It will be interesting to see how it is received by the gardeners of this country.

"We must remember that, outside kitchen gardening, it is practically non-productive or luxury labor. When things settle down, employers will find that their incomes are reduced by income and super tax probably by a third, or perhaps by half. They will also find the purchasing value very much reduced, and that they have to pay far more for practically everything—indoor servants, food, clothing, coal, education of family, traveling rates, repairs and, in case of land-owners, estate building, etc. Also they will probably realize that the old kitchen garden and orchard are both far larger than is necessary for the wants of their household. Now, gardening is a very pleasant and attractive profession, the labor (outside digging) is not really hard, and much of it is quite suitable to woman labor, which will assuredly be competitive. Under these circumstances it seems probable not only that the number of men gardeners employed will be far less, but also possible that the law of supply and demand will again reduce the wages considerably."

NATIONAL PUBLICITY CAMPAIGN.

The following, from President Ammann of the Society of American Florists and Ornamental Horticulturists, is interesting at this time when florists everywhere are wondering as to the future:

"Better than ever—Good sales at high prices—Easter trade makes record—Complete clean-up—Supply insufficient—Little complaint at high prices, big increase over last year, etc.

"Say, brothers, don't that sound good? It means so much for you and your loved ones' 'better living,' 'better labor,' and 'better environment'—wonderful in contrast with just a short time ago!

"But, after all, isn't it what we are entitled to? Are we not just coming into our own, largely because we have taken time by the forelock and advertised? Publicity; that's it. 'O well,' you say, 'not altogether.' No, but 99 per cent of the increased business is directly creditable to it.

"Say, brother, ARE YOU ON THE HONOR ROLL? If not, why not? If

you are on it, are you doing your full share? Are you putting 1 per cent of your gross receipts into publicity, either local or national? Well, if you are not, you are still short of your full share of the work.

"Did you ever stop to think why people buy so many flowers? Do they use them for others? You say, 'Yes, that is true.'

"What are you doing toward the cause that is educating people as never before in all history, to give flowers to make others and themselves happy, and to help make the echo as quoted in the opening of this article ring in your ear? DO WE HEAR THAT YOU ARE DOING, OR WILL DO, YOUR FULL SHARE? If so, then you are certainly a happy person, along with the rest of the 'publicity boosters,' and we shall reach the \$100,000.00 goal before the snow flies.

"You, no doubt, have a subscription blank. Fill it out and send it to Secretary Young today.

"J. F. AMMANN, Pres."

The following subscriptions have been received and are in addition to those previously announced, annually for four years, unless otherwise stated:

Miss L. Doussard, E. St. Louis, Ill., \$10; Nick Dahm, Morton Grove, Ill. (1 yr.), \$10; Robert M. Henley, Hartford City, Ind., \$5; Carl A. Jagesch, Columbus, O. (Addl. Subn.) \$20; The Munk Floral Co., Columbus, O., \$25; Henry Heintz, Toledo, O., \$25; John Barrow, Toledo, O. (3 yrs.), \$10; Underwood Bros., Columbus, O., \$15; T. J. Ludwig, Columbus, O., \$25; James McKellar, Columbus, O., \$5; Abram Stevens, Spring Valley, N. Y., \$10; H. R. Wilson, Columbus, O., \$25; J. L. Schiller, Toledo, O., \$25; Emil Metzmaier, Columbus, O., \$10; Scottwood Greenhouse, Toledo, O., \$20; Harry O. Bock, Burlington, Ia., \$5; C. L. Van Meter, Monticello, Ia., \$5; W. W. Horiacher, Dayton, O., \$25; John Heidenrich, Indianapolis, Ind., \$5; Smith & Young Co., Indianapolis, Ind. (2nd Subn.), \$25; John Riemann, Indianapolis, Ind., \$5; Pabud Floral Co., Indianapolis, Ind., \$15; M. Brandlein, Indianapolis, Ind., \$25; H. M. Reiman's Sons, Indianapolis, Ind., \$25; Indianapolis Flower & Plant Co., Indianapolis, Ind., \$25; Roepke Floral Co., Indianapolis, Ind. (1 yr.), \$15; Hartje & Elder, Indianapolis, Ind. (2nd Subn.), \$15; Albert Kempe, Indianapolis, Ind., \$2.50; Fred R. Hukreide, Indianapolis, Ind., \$5; C. H. Schomeyer, Indianapolis, Ind., \$10; J. B. Knapp, Sayre, Pa., \$5; George Lisburg, E. Hampton, N. Y., \$3; Francis Koller, Astoria, L. I., N. Y., \$5; Rudolph A. Brux, Racine, Wis., \$5; Wm. Goos, Bettendorf, Ia., \$5; Fred W. Wise, East Aurora, N. Y., \$5; J. F. Vovroux Sons, Lebanon, Pa., (1 yr.), \$10; total, \$485.50; previously reported, \$34,862.50; total, \$35,348.50.

JOHN YOUNG, Secy.

1170 Broadway, New York,

May 3rd, 1919.

HOW TO CUT ROSE BLOOMS.

Cutting roses so as to preserve and encourage a maximum number of blooms is almost an art. Experience indicates that to preserve the most flower buds, the stem should be cut back to the first five-leaf shoot that will allow the proper length of stem for the cut flower. The wood at the three-leaf shoot might develop a bloom but it is likely to produce blind wood.

—Ohio Station.

GROWING DAHLIAS COMMERCIALY.

As my methods of growing dahlias commercially on a large scale are generally considered to be somewhat different from those followed by most dahlia growers, I have been asked to describe them. This year I shall plant about forty acres and shall follow my usual custom of starting the work the first Monday in May. I shall be through by the middle of July and perhaps earlier, depending on the weather.

I have been told that my farm is exceptionally free from weeds and I make it a hard and fast rule to prevent all weed growth. This is easier than it was when I first started, but it requires regular cultivation and careful preparation of the soil. I use a two-horse plow, and put it into the ground from 12 to 14 inches deep. Then I go over the ground with a fine tooth harrow or a cutaway harrow. I harrow the fields twice in both directions, and arrange to have the harrow lap each time.

Each field is manured lightly every other year, the manure being plowed in and about two cords to the acre. Every third year Connecticut limestone is applied and harrowed in, about 800 pounds being used to the acre. My plantation is divided in such a way that one-third is limed each year. I am strong for lime when growing dahlias. It keeps the ground sweet and improves the flowers. While I do not use a great quantity of manure, I also plow in all of the stalks left when the dahlias are dug in the fall. Nothing is burned, and the dahlia tops help to keep the soil filled with humus. Constant use is also made of commercial fertilizer, either bone meal or a regulation potato fertilizer, about 1,200 pounds being put on to the acre. It is used in the furrows and is mixed with the soil by pieces of brush to which a couple of horse shoes are tied. Boys pull this brush up and down the furrows.

Furrows where the Pompom dahlias are to go are three and one-half feet apart. For the other dahlias, from four to four and one-half feet is left between the rows. When striking out the furrows no line is used, but my plowman, who is an expert, can get them remarkably straight by his eye. The plow goes twice in each furrow. The tubers are dropped by hand, and my instructions are to have from three to eight inches between the crowns. The tubers themselves often lap if they are long, so that it looks

as though the planting was very close. It is always the eye, though, that we are paying attention to. The tubers are covered by cultivators and by the time the planting is finished the first fields put in are ready for cultivation. Besides being cultivated with the horse, all the dahlias are hoed by hand twice.

In planting my fields I use many tubers which other growers would throw away. The cutting up of the clumps is begun in the fall and continued all winter, from ten to fourteen men being employed. All of the poorest tubers, those with broken necks, etc., which could not be sold are carefully saved and planted. I have found that oftentimes the broken necks will knit in the course of the winter and make good tubers to plant in the spring.

The tubers are carefully stored in a cellar which is just damp enough to prevent shriveling, and where the temperature does not go below 38 or above 44. One piece of ground on my farm has been used for dahlies eleven years, and last year the flowers on this piece were better than ever.

J. K. ALEXANDER.

WORCESTER FLORIST'S PLAN.

H. F. Littlefield, florist at 552 Main street, has a plan in mind which he feels certain would result in placing a large number of building mechanics at work now, and which would also materially assist in providing employment for many soldiers who are returning to Worcester by the hundreds every day.

Mr. Littlefield's suggestion is that 10,000 Worcester property owners pledge themselves to have at least \$25 worth of building repairs done during the month of May. He believes that there isn't a single house in Worcester but what needs repairs of some kind and that these will have to be made sooner or later, but that as present conditions are, when thousands of men are out of employment, it would be fulfilling a patriotic duty should they elect to have the work done when it is of such importance.

Mr. Littlefield estimates that this would cause work to be done amounting to at least half a million dollars, and that this would give employment to 400 building mechanics during the whole month of May, or until such time as building conditions become more settled.—Worcester News.

TREES AND SHRUBS THAT FLOWER EARLY

Notes on Their Behavior in the Arnold Arboretum This Season.

In the first bulletin issued by the Arnold Arboretum this spring, the statement is made that vegetation was not unusually advanced in spite of the mild weather in February and March.

On April 2nd the temperature fell to 23 degrees Fahrenheit. This ruined the flowers of the north China Peach (*Prunus Davidiana*) which were just opening and those of the earliest of the Azaleas (*Rhododendron dahuricum*) whose rose-colored corollas were just emerging from the buds. On the nights of the 24th and the 25th the thermometer registered as low as 24 degrees. This ruined the flowers of the early blooming Magnolias, but the flowers of the Forsythias, Cherries, Plums and Apricots show no signs of injury. Freezing weather in April is not unusual in New England and its effect on the flowers of different plants can well be studied by persons who have in mind the planting of spring gardens.

To Save the Early Magnolias.

The flowers of *Magnolia stellata*, *M. denudata* (better known as *M. conspicua*), *M. kobus* and its variety *borealis*, which open in April, are too often ruined by frost. To prevent this it is desirable to plant these trees and shrubs on the north side of other trees, and especially of evergreen trees, where the flowers may be expected to open seven or eight days later than on plants fully exposed to the sun. The hybrid Chinese Magnolias with pink or rose-colored flowers all bloom later than the white-flowered species and their flowers are rarely injured by cold although the unfolding petals of some of these hybrids were badly discolored by the cold of the past week. These hybrids therefore, although their flowers are less beautiful than those of the species, are better garden plants in this climate. The best known of these hybrids is called *M. Soulangeana*, of which there are several varieties differing in the greater or less amount of pink or rose-color in the petals.

The Cornelian Cherry.

The Cornelian Cherry (*Cornus Mas*) is a plant for which the frosts of April have no terrors. The small, bright yellow flowers arranged in many-flowered clusters open late in March or in early April and remain in good condition for three or four weeks. There is no record here of their in-

jury by frost. This is a shapely shrub or small tree of excellent habit; the leaves are bright green and the scarlet or rarely yellow fruit, which ripens late in summer, is cherry-like in appearance. The Cornelian Cherry is a native of eastern Europe and western Asia, and has been grown in the Old World gardens for three centuries. There is no better early flowering shrub for our northern gardens in which, although it was brought to America certainly more than a hundred years ago, it is still too little seen.

The Earliest Pear.

The earliest pear to flower, *Pyrus ussuriensis*, has been in bloom for more than a week and the flowers are untouched by frost. This is probably the largest of all pear-trees as specimens occasionally occur in Korea

sixty feet or more tall, with trunks 14 feet in circumference. The flowers are not as large as those of some of the other Chinese pear-trees, and the fruit is small and of no value. This tree, however, is exciting much interest among American pomologists who believe they have found in it a blight resisting stock on which to graft garden pears.

Early Cherries.

The cherries of Eastern Asia have never been more thickly covered with flowers. The delicate petals of the flowers of these trees and shrubs seem able to bear without injury the coldest April weather Massachusetts has known for many years.

The earliest cherry to bloom in the Arboretum this spring was *Prunus concinna*, a small tree discovered by Wilson on the mountains of central China. In the Arboretum it first flowered when less than three feet high; it is perfectly hardy, and although the flowers, which are white with a wine-colored calyx, are less beautiful than those of several other Asiatic cherries it does not seem possible for any plant of its size to produce a more abundant crop. There has always been misunderstanding about this plant in gardens as it was distributed by a London firm of nurserymen as *Prunus subhirtella*.

A Valuable Cherry.

Prunus tomentosa, a native of northern and western China begins to open its flowers only a day or two later than *P. concinna*. It is a shrub only five or six feet high, and when fully grown in abundant space for the spread of its branches often broader than tall. The flowers open from pink buds as the leaves begin to unfold, and the bright red stalks and calyx make a handsome contrast with the white petals which are often blotched toward the base with rose color. The small fruit ripens in June and is scarlet covered with short hairs, and is sweet and of good flavor. This shrub is attracting the attention of pomologists, living in the dry cold interior region of the continent where it is hardy and where it produces fruit of considerable comestible value. A form discovered in western China by Wilson (var. *endotricha*) is now established in the Arboretum where it blooms rather later than the northern plant. The fruit of this variety is destitute or nearly destitute of hairs.

AN APPEAL AND A PROMISE.

After an absence of more than two years it takes time to pick up the threads anew, to readjust oneself to the machinery of life here. Today, Sunday, I have had opportunity to look over some back numbers of *HORTICULTURE* and in that of April 5th last, have read the last message from our lamented friend, the talented William J. Stewart—"Remember Me for Old Time's Sake—Adieu." One by one the older generation of horticulturists pass on. Their work here is done; their precept and example remain as a legacy to us. It is our duty, ours, the present generation, to shoulder the burden and manfully bear a part in the great work of furthering the interests of horticulture in all its branches, in doing our part to increase the knowledge and love of flowers, thereby adding to the sum total of human happiness. The founder and first editor has gone from us—*HORTICULTURE* remains. Of a surety those who now control its destiny need never hesitate to call on the services of all who were proud to be considered the friends of the late William J. Stewart. In a practical way, by doing something to help along the work to which he devoted the last fifteen years of his life, his friends can best remember him.

E. H. WILSON,
Arnold Arboretum.

BORROWED IDEAS.**A Commonsense Tip.**

A writer in *The Garden*, the English horticultural magazine, tells of a commonsense tip given him by an American farmer friend. He says all kinds of insect's eggs and dangerous weeds with their seeds, and creeping roots that cannot be safely buried in their fresh state without coming up again from any depth can be effectually killed and turned into splendid manure by simply being mixed with or covered by grass cuttings and other green vegetable matter and trampled down hard, which raises such a great heat and fermentation as to kill them outright. It will be apparent that this kind of burning has the great merit of utilizing the whole of the valuable manuring quality of the weeds instead of destroying ninety-nine per cent of them as by the suicidal custom of drying and setting fire to them with a match. Of course care must be taken that the dangerous roots and seeds be well buried in the hottest part of the fermenting heap, and put back a second time if any have escaped the first.

Pruning the La France Rose

Some very interesting suggestions about the pruning of the La France rose are found in one of the English Garden magazines. The writer says that this old time favorite is rarely pruned as it should be with a view to the production of as many blooms as possible. "I have never seen very satisfactory plants," he continues, "that were severely pruned nor lightly cut back. A medium course seemed to be the best in my case, and I tried such pruning, after reading the experiences of a rose grower who had several plants in very small beds in different parts of his lawn. He had tried hard pruning without success, so he decided to thin out the weak branches, and to shorten the remaining ones, some being cut back to one-third the weaker ones to two-thirds of their length. In the course of a few years after such annual pruning, the bushes measured about four feet high, and three feet through, forming splendid specimens and flowering profusely. Every spring a good mulch of rotted manure was put on, and covered with a layer of good fibrous loam."

Destroying the Strawberry Weevil.

According to the New Jersey Experiment Station, dusting the strawberry plants as the buds appear will keep the weevils away. The dust is composed of one part dry arsenate of lead and five parts powdered sulphur. This does not kill all the weevils, but drives them off. As for a device for applying the dust, the "News Letter" says:

Best Young Trees

Little Tree Farms, Framingham, Mass. Millions of Evergreen and Deciduous trees, all grades and sizes.

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Boston, Mass.

"Cheesecloth bags, the naked hand and other devices were used by growers who did not care to buy the powder guns, but to Tony Rizotte belongs the honor of evolving the most ingenious hand device for sifting. He covered a common wire horse muzzle with one thickness of copper mosquito netting and drew the edges up to the rim. The inventor then bent a 3-ft. hickory sapling, fastening it to opposite sides of the rim. This served as a handle by which the improvised basket filled with the powder could be twirled with more or less force, depending on the width of the rows."

COMING MEETINGS AND EXHIBITIONS.

New York City.—Hort. Society of New York, flower show at Botanical Museum, Bronx Park, May 10 and 11. Geo. V. Nash, Sec'y., New York Botanical Garden, Bronx Park, N. Y. City.

Boston, Mass.—Spring conference, National Association of Gardeners at Hort. Hall, May 16 at 6 p. m. M. C. Ebel, Sec'y, Madison, N. J.

Chicago.—American Seed Trade Ass'n, annual convention, June 24 to 26. Secretary, C. E. Kendall, 216 Prospect Ave., Cleveland, O.

Chicago.—American Association of Nurserymen, convention, Hotel Sherman, Chicago, June 25, 26 and 27. Charles Sizemore, Louisiana, Mo., Sec'y.

Detroit, Mich.—S. A. F. and O. H. Convention at Acadia Hall, Aug. 19, 20 and 21. Secretary, John Young, 1170 Broadway, N. Y. City.

Hartford, Conn.—Conn. Hort. Society, fall flower show, Sept. 9, 10 and 11.

Chrysanthemum Cuttings

Major Bonnaffon, Chas. Razer, Oconto, Pacific Supreme and Chrysolora, ready April 1st, \$2.50 per hundred.

Also, Extra Strong Cuttings of Carnation Matchless, \$20.00 per thousand.

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Practical instruction is offered in vegetable, flower and fruit gardening, greenhouse and nursery practice, together with lectures, laboratory, field and shop work in garden botany, zoology, pathology, landscape design, soils, plant chemistry and related subjects.

The curriculum is planned for the education of any persons who would become trained gardeners or fitted to be superintendents of estates or parks. Students may be admitted at any time.

Circulars and other information will be mailed on application.

The New York Botanical Garden

Bronx Park NEW YORK CITY

Sec'y Alfred Dixon, Wethersfield, Conn.

New York City.—The American Institute and the American Dahlia Society, exhibition of dahlias in the Engineering Building, 25-33 West 39th St., Sept. 23 to 25. William A. Eagleson, 322-324 West 23d St., Secretary.

ROSE GROWING UNDER GLASS

ARTHUR C. RUZICKA.

Your articles "Rose Growing Under Glass" are always read by me with the greatest interest. I would like some information about pinching in summer of both young and old plants, to build them up for winter blooming; just when and where to take off the growth on large and small wood. B.

Plants that are planted early, will require very little pinching, for if they receive good culture they will grow to a size large enough to produce plenty of cut flowers during the winter months. It is not the best thing in the world to have the plants very large. The main thing is to have them well rooted. To do this it is advisable not to over water them during the summer months, giving them enough water only to keep them going all the time, and to insure a good sturdy growth. If the plants are well rooted, they will have to grow if given proper care and feed next fall and winter. With late planted plants it will be best to pinch just a little, and then the buds should be taken off as soon as they show, which will be when they are about the size of a grain of wheat, or even smaller should they be de-

tected then. Take the bud out with the top leaf down to a good leaf, that is a leaf with five leaflets to it, as the top one will have only three and the eye with this leaf will seldom produce good growth. Pinch only once, and then let the bud open and cut it when a flower. If you need short stuff let the two come, as there generally will be two when a bud is pinched. If in need of long roses, clean off the stem to only one growth selecting the best of the two or three that started. Get all your plants in before the 15th of July, and you have little to worry about. Give them good soil, good care, and you will be well repaid. You cannot be too careful as to selection and proper mixing of soil, nor can you get the houses too clean. Do not use too much soil, especially if you plant late. Three inches is plenty for late planting. Be careful in cutting to leave two good eyes on the plant, never more, as this makes a lot of hard wood, through which sap has to flow to make flowers. Keep the plants as low as you can.

ARTHUR C. RUZICKA.

Starting a Florist Business

As a subscriber to HORTICULTURE I am writing you for some information. I am thinking of starting a small florist business. I have always had quite a success with pleasure flowers and since my husband's death I feel that I might take up this work. I am situated in the midst of four prosperous towns and the nearest greenhouse is sixty-five miles away. My yard is an old one with evergreens, such as Deodar cedar, Norway spruces, magnolias, box, and many other beautiful evergreen, and I thought perhaps this would be a great help in the making of designs, etc. I want to make designs a specialty.

Now what I wish especially to know is in regard to the plants to place in stock for winter blooming, that is whether to plant seeds now for winter blooming or not. I want to raise a few roses if possible. My greenhouse is small, but if I utilize every possible space I might be able to carry enough to supply my trade. The measurements are as follows: Length 24 feet, width 12 feet. This is a double glass greenhouse bought of Sunlight Double Glass and Sash Co., Kentucky, and is setting on a brick foundation around and is dug out three feet into the ground making a height from ground floor to top nine feet in middle and six feet on sides.

Please give me any information possible and if it is necessary I will purchase literature to study. It is not

convenient just at this time for me to take a course at a school as I have three small children. I have sufficient capital to finance my undertaking. It isn't altogether the money I expect to get from this work but pleasure and the help it will be to my growing little youngsters as well.

L. M. S.

Your prospects are very good, as you seem to be in a very good location. I would not under any circumstances rob your trees and shrubs of any branches, except perhaps here and there to thin out but only very little. I would keep the trees, and add to them where necessary to make a real little florist's place such as people would love to come to, and you will find people will go way out of their way to buy from you. I cannot advise you just how to arrange this. You do that yourself taking into account the lay of the land, the entrance and the buildings. Also I would advise you to go slow, feel your way and do not put up anything expensive and permanent until you are sure of your ground. As you do not know just what demands the business will make you will have to get facilities as business develops.

Now regarding the greenhouse. I doubt very much that you could grow

roses successfully, and it would be better if you arranged with some grower to keep you supplied with these and carnations. Then you ought to start all such seeds as will do well in your locality and also bulbs,

As for plants for the greenhouse I would advise you to buy these in small quantities as you need them, getting ferns, etc., small and growing them on gradually while waiting to sell them. Ribbons, chiffons and supplies you can buy in larger quantities, as they will not spoil, but even these I would buy small to start until you know just what the people want. Things that sell well in one community will not sell at all elsewhere. You can write to firms advertising in HORTICULTURE for catalogues of all sorts, and read these over carefully, and you will get a surprising amount of information from these. For books you can write to the office of HORTICULTURE and select what you think you need. The best schooling for you would be to try and get into a first-class store for a while, say a year or even less. It seems like time wasted but it would pay you in the long run. Of course it is not at all necessary, and as you have capital to run on, you can afford to go slow and take time. Do not cut up all your trees though, rather buy in all your greens; they will cost you but little, and as I suggested above you can make a neat little place by adding to the trees you already have. I imagine you have no heat in the greenhouse. This will go against anything that you try to grow, as even in the warm climate you should have heat in damp, chilly weather.

You can correct this in time, however, after you see just what you need to carry on the business economically. When you do get ready to remodel be sure to get a good greenhouse concern to do it and not any local builder or plumber unless the latter work from plans furnished by greenhouse people. The greenhouse building is a trade all by itself and many who thought of saving money by letting local men tamper with their greenhouses have had bitter experience and after losing money have had to get regular greenhouse men to do the work in the end. When making up designs be sure to figure up the costs properly, and do not forget to charge enough for the ribbons and chiffons. Otherwise you will do a big business, work hard, and have nothing left. You should figure all flowers in at retail, as well as ribbons, moss, letters, and time and then expense and last, but not least, the profit. If I can help you any more than this, just let me hear from you.

ARTHUR C. RUZICKA.

SHRUBS THAT FLOWER EARLY.

In its current bulletin the Arnold Arboretum says:

Prinsepia sinensis is again covered with clusters of bright yellow flowers which spring from the axils of the half-grown leaves. This *Prinsepia* is a tall broad shrub with long spreading and arching branches, and stems armed with many spines. It is perfectly hardy and the handsomest shrub Manchuria has contributed to western gardens. There are only two specimens in the Arboretum and these came here from Petrograd in 1903 and 1906, and it has been found difficult to propagate them by cuttings. Fortunately last year one of the plants produced for the first time a few seeds and these have germinated, so there is reason to hope if the Arboretum plants become more fruitful that this species will be a common ornament in northern gardens. It has much to recommend it as a hedge plant. The species from northern China, *P. uniflora*, is a spiny shrub with small white flowers, and although it has little beauty its value for forming impenetrable hedges may prove considerable.

Prunus dasycarpa, which is sometimes called the Black Apricot from the dark color of its slightly downy fruit, is the first of May one of the handsome flowering trees in the Arboretum. It grows here both as a great round-headed shrub with several stems or as a tree with a single trunk, and every year is completely covered with its flowers composed of pure white petals and a bright red calyx. This tree, although it has been known in European gardens for at least a century, is apparently extremely rare in the United States. Its origin is doubtful; it has been considered a native of Siberia, but it is now generally acknowledged that it is a hybrid between a plum and an apricot. Although this tree has been growing in the Arboretum for twenty years, there is no record that it has produced fruit here on more than two occasions.

Two plants useful for covering the margins of drives and the borders of shrubberies, *Rhus canadensis* (*aromatica*) and the Yellow Root (*Xanthorrhiza apiifolia*) are covered with flowers. Those of the former are small, pale yellow, arranged in compact heads, and appear before or with the unfolding of the leaves composed of three leaflets; those of the Yellow Root are purple in long drooping, terminal racemes. The flowers of these two eastern American plants are attractive, but their great horticultural value is in their habit of growth. The height of the *Rhus* is from two to four feet,

with spreading branches, the lowest flat on the ground, and with an irregular top. In the autumn the leaves turn bright scarlet. For road borders and to plant when it is desirable to make a connection between larger shrubs and the ground no other plant which has been tried here has proved so successful. The Yellow Root is a dwarf shrub which soon spreads over a wide border and forms with its erect stems and divided leaves an excellent ground cover. Unfortunately it has failed to grow well in those parts of the country where the soil is strongly impregnated with lime.

Shad Bushes, as *Amelanchiers* are often called because they are supposed to flower when shad begin to ascend the rivers from the sea, add much to the beauty in early May of the Arnold Arboretum where they have been planted in considerable numbers. *Amelanchier* is almost entirely confined to North America where many species are found from Saskatchewan to Louisiana and from the Atlantic to the Pacific, one extra American species occurring in central Europe and another in central China. All *Amelanchiers* produce abundant pure white flowers in short drooping racemes, and blue-black sweet and edible berry-like fruits. The American species vary from shrubs hardly more than a foot or two high up to trees exceptionally sixty or seventy feet tall. The first species to flower, *A. canadensis*, is the larger of the two trees, and although it grows in western New York to a large size it is more common in the

south where it is often the only species. The more common northern tree, *A. laevis*, is a native of the Arboretum and is readily distinguished in early spring by the purple color of its young leaves. *A. oblongifolia*, which is a large arborescent shrub, is also a native of the Arboretum. It is this species which is gray in early spring from the thick felt of pale hairs on the young leaves and flower-clusters, and which has been largely planted by the Arboretum drives and is in bloom this week.

Unleached Sheep Manure FROM COVERED PENS

The best top-dressing for Roses and Carnations. For potting bedding plants add a four inch pot full to a bushel of soil and mix thoroughly.

Analysis: Amm. $1\frac{1}{2}\%$, Phos. Acid 1% , Potash $2\frac{1}{2}\%$.

100 lbs.	\$ 3.00
500 lbs.	13.00
2,000 lbs.	50.00

Arthur E. Boddington Co., Inc.

128 Chambers Street *Seedsman* NEW YORK CITY

MICHELL'S PRIMULA SEED

PRIMULA CHINENSIS

(Chinese Primrose)

	$\frac{1}{2}$ tr. pkt.	tr. pkt.
Michell's Prize Mixture. An even blending of all colors.	\$0.60	\$1.00
Alba Magnifica. White.	.60	1.00
Chiswick Red. Bright red.	.60	1.00
Duchess. White, with zone of rosy carmine, yellow eye.	.60	1.00
Holborn Blue.	.60	1.00
Kermesina Splendens. Crimson.	.60	1.00
Rosy Morn. Pink.	.60	1.00

PRIMULA OBSCURICA GIGANTEA

A great improvement over the old type. flowers much larger

Lilacina. Pale lilac.	tr. pkt. \$0.50
Kermesina. Deep crimson.	.50
Rosea. Pink	.50
Alba. White	.50

ASPARAGUS PLUMOSUS NANUS

Northern Greenhouse Grown Seed

1,000 seeds. \$3.00	10,000 seeds. \$25.00
5,000 seeds. 13.75	25,000 seeds. 56.25

HENRY F. MICHELL CO.

518 Market St., PHILADELPHIA, PA.

MARKETING PEONY BLOOMS

Most people prefer blooms of solid colors and massed together Mr. Wm. A. Peterson, the Chicago nurseryman told the members of the Minnesota Horticultural Society. He continued as follows:

This building of a master list, into which each tested variety must fight its way by sheer demonstrated worth, is very absorbing. In comparing the painstaking records which we annually make, we sometimes find an outstanding variety, like Madame Forel, should be finally dropped, because other kinds have superseded it. In my personal study in order not to be too exacting and give new varieties every chance, I have really seven colors to divide the sorts into, viz.: (1) paper white, (2) cream or yellow, (3) blush or delicate flesh, (4) light or medium pink, (5) deep pink and rose, (6) red, (7) crimson and deep red. In this way we have tried out some fourteen hundred varieties and at the present time are carrying less than eighty.

Recommending varieties for other localities is not a very safe proposition, and I shall only give a few notes on how certain sorts conduct themselves at our nursery. We have discarded Meissonier because of its crooked stems; Madame Emile Galle because of having no low lateral leaves, which prevents cutting it with a long stem; whereas Octavie Demay, a dwarf-growing delicate pink, admits of cutting with a fairly good stem without injuring the plant and is a wonder. So far with us, the prize-winning Jubilee has a very weak stem. Golden Harvest is one of the mixed colored kinds that florists cannot send on a definite color order unless the customer knows it by name.

Madame Crousse is tender in our climate and often skips a season in blooming. Because Richardson's Rubra Superba has proven very shy, we no longer carry it, while Richardson's Grandiflora is all that its name implies and a very free bloomer besides. This last is one of those unusual sorts that comes into bloom over a long period, so one must have a good many plants to cut from to get a fair quantity of flowers at any given time.

Adolphe Rosseau is a wonderful "black" but too loose and shows the yellow stamens too much. The greatly talked of pink, Lady Alexandra Druff, is on the same order.

Single blooming varieties attract some but are not very suitable for shipping.

La Tulipe is objectionable in bud, as the florists call it a "candy bud,"

where as the bud of Kelway's Venus leaves nothing to wish for.

No matter how fine a sort may ultimately develop on the plant, if in the early stages of opening it is likely to "water log." Like Charlemagne, it is not worth carrying. Probably more Delicatissima are used at June weddings than any other light pink sort.

The most popular selling red is Felix Crousse, with its perfect bomb shape and large guard petal, which always indicates a good storage variety.

Many will be surprised that we have finally dropped Edulis Superba. It does so well in many places, but on our records, which we have kept annually since 1888, it is not nearly as dependable as M. Jules Elie and generally not more than a day earlier. In some quarters Madame Ducel is grown, but with us it is smaller and so similar in shade and time of blooming to M. Jules Elie that we do not need it.

Cutting the Blooms

Long straight stems are essential, but the cutting must leave the plant to grow the balance of the summer with at least one or, better, two lateral leaves on each stalk left standing. Where every terminal has a bud it is a good plan when disbudding the side buds for the cut flower trade to also roll off a terminal bud on one or two of the weakest stalks, and thus give the plant more leaf area with which to breathe. The disbudding of all lateral buds, when the size of a pea, makes the terminal bloom develop larger.

Just at what stage of unfolding to cut a bud depends on the variety and how soon it is expected to open. Several carloads of peony blooms come annually to Chicago before Decoration Day from points fully six hundred miles away.

As soon as the stalks are cut and most of the lateral leaves stripped off in order to give more of the sap remaining in the stem to the bud, they are gathered together in bundles of thirteen of the same variety and size of bud. In units of thirteen they can be sold either by the dozen or the hundred. The buds cut when the dew is on them carry better, but if they are to be wrapped in paraffin or other paper, the petals must be thoroughly dry.

If possible it is a good plan after the bundles are tied up to stand the stems in water for an hour before shipping in boxes.

For the benefit of those who want peony blooms much later than their normal season—and really one of the

recent developments of this industry—it has been found that certain varieties of peonies when cut in bud will keep in cold storage for six to ten weeks, and upon their being taken out will unfold in all their usual glory.

THE WRONG KIND OF PUBLICITY.

"Here's some stuff that should be stopped," says F. F. Rockwell, manager of the Nurserymen's National Service Bureau, New York. "The right kind of publicity is all right, but here's an instance of the wrong kind."

In a Chicago paper recently this statement appeared:

"Every variety of Barberry—the common, the purple or the bronzed leaved, and all the rest—are under fire, and it is hoped that Illinois will soon be comparatively free from the pest. The United States Department of Agriculture is co-operating with a similar department at the University of Illinois in this work."

The above, of course, refers to the "common" barberry because of the part it plays in the spread of wheat rust.

As every nurseryman knows, the Department of Agriculture has stated frequently that the Japanese Barberry is not a host of the wheat rust.

From information from other sources, I know that other newspapers have been guilty of the same carelessness in remarks about the wheat rust and barberry. Every wide-awake nurseryman should be on the look-out for this sort of thing and take the matter up immediately with the editor of his local paper anywhere such statements may appear so that the public may be set right. I know of a number of instances in which beautiful hedges of Japanese Barberry have been torn out as a result of this misdirected "patriotism" on the part of the papers.

This information is being sent to 700 newspapers which the National Service Bureau is supplying regularly with educational articles on small fruits, shade trees, shrubs, etc.

Another "warning" that has gained some publicity is that planting should not be done this year because of the seventeen year locust. More damage is done every year to newly planted stock through careless planting and ignorance than the seventeen year locusts could do in seven times seventy-seven years.

The National Service Bureau, of course, does everything it can to combat this sort of thing, but individual nurserymen should co-operate by watching their local papers and immediately taking it up with the editor when they see such statements.

NEWS AND GOSSIP

PHILADELPHIA.

We had a pleasant call from Robert Craig on Wednesday, the first seen of him in three weeks. He has been a little under the weather and conditions at Norwood hold him pretty tight on the job. They are still six or seven men short and there is lots of work to do. This seems the general cry, but now that the boys are coming back from France in increasing numbers the situation ought to improve very shortly.

A. B. Cartledge, of Pennock Bros., is a cheerful soul, but he does worry about the mistakes of the government. He does not approve of the way it has handled the telephone, telegraph and cable situation and now says that they have burnt their fingers and they're glad to drop it. As for lending money to farmers at the expense of the nation that's another foolishness. We left him and another able florist of national renown in hot debate over these subjects. All of which means that the retailers are not very much rushed this week, else they would not have time to bother about regulating the affairs of the universe.

We had the good word from Washington, D. C., that our old friend Will Gude is so far improved in health recently as to be on duty again. Al. Jones of the Pennock Company was on a five day Southern trip and called at the Gude store on F street, Washington. The head of the Gude house had been there that morning but had just stepped out to attend a meeting. This was on May 2nd, so it is gratifying news to Will's many friends not only in Philadelphia but all over the country. If he is able to go to the store and attend meetings he is pretty near all right again. Glory be.

William N. Burchard, for a time a distinguished representative of HORTICULTURE in Philadelphia (having superceded G. C. W. by superior merit and a knowledge of Greek) has just left the precincts of Philadelphia and for the next nine months may be addressed—if you have any good clip-pings, letters, or papers to send him—at Lake Paupac, Greentown Pike Co., Pa. This is a fishing and hunting camp, up in the mountains of the old Keystone state, and the Meehins and other hustling nurserymen and fishermen are to be congratulated in having at their service not only willing hands

and faithful intelligence but an authority on the laws of Aristable—or anything else—if they want to banter it over the cigars after dinner.

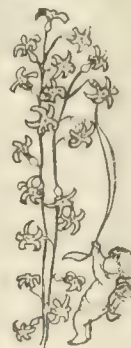
The old Gontram place of Volens-burg consisting of five greenhouses has been purchased by Mr. Sterner. We are informed by reliable authority that Mr. Sterner has had Dreer training and is backed by financial interests of standing—so that he ought to be heard from in the near future. We will be glad to further the new venture—and anything we can do to smooth the upward path to success—call on us. Send us your story and we will do our best to help you along. That is what HORTICULTURE has been doing for all the young hopefuls since its inception by William J. Stewart fifteen years ago.

The King Construction Co. are busy in this neighborhood through their representative, T. J. Nolan. He reports having just signed a contract with the Bickmore Co. at Wallingford for two new houses, 200 x 25 feet and has quite a lot of prospective work which is keeping him on the jump. The outlook, he says, is very good for a lot of new work. Mr. Nolan is temporarily at the Bingham House, but those who wish to write him should address him at his Scranton, Pa., office, 307 North Irving avenue.

Frank M. Ross, considered one of our leading retail florists, reports excellent results recently from his F. T. D. advertising in the trade papers, including HORTICULTURE. He has just put in a new window feature at his 52nd street store in the shape of a map of the United States electrically illuminated with moving lights to the chief cities and appropriate signs. This draws big crowds evenings and seems to be a stroke of excellent business although it must have cost a pretty penny.

BOSTON PERSONALS.

So far as is known, all of the Greater Boston florists and market salesmen who served with the colors are back with the exception of three, Matthew Siegel, Matthew Ruane and Robert Koppelman. Mr. Siegel is supposed to be on his way home, while Mr. Ruane is still in France. Mr. Koppelman is in Palestine and it is reported that he will remain there permanently.



BURLINGTON WILLOW WARE BASKETS

Special assortments for Decoration Day work. This immense and unique line is known from one end of the country to the other. 'Phone, wire or mail your orders to

T. J. NOLAN
307 North Irving Avenue,
SCRANTON, PENNA.

William Carr, a salesman in the Exchange, has been very ill, but is slowly recovering.

Several faces that have been missed from the market the past year are being seen again. Andrew G. Mitchell, formerly with Beasley at Milton, has purchased a greenhouse at North Sudbury and is sending in sweet peas. Edward Gay, formerly of Stoneham, who was caught by the coal shortage, is back again. D. Orsine of Wakefield, who also was affected by war time conditions, has resumed. William Le-faber, formerly of Newcastle, N. H., has purchased a greenhouse plant at Bridgewater.

ST. LOUIS NEWS.

Market the past week showed everything plentiful except carnations, which stiffened in price, and according to the outlook prices will greatly advance for Mothers' Day.

Jimmie Kahrens of Philadelphia and Morris Levine of New York were visitors.

The publicity committee met and special ads. will be used in the local papers advertising Mothers' Day.

The Growers' dance took place April 30th at W. R. Rowe's place and was a great success.

L. S. Knetchell has bought the greenhouse property of Clifford Smith at Athol Highlands.

IN THE
National Capitol

At your service to deliver Flowers
or Designs on Order by Tele-
graph or otherwise. Prompt
Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

Penn. The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

**124 TREMONT ST.
BOSTON**

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KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Member Florists' Telegraph Delivery

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Write or Telegraph

2139-2141 Broadway, - New York

Telephone 1552-1553 Columbus

KOTTMILLER, Florist

1426 Madison Ave. and 49th St., New
York. Also Vanderbilt Hotel

Telephone, Murray Hill 783

Out-of-town Orders Solicited. Location
Central. Personal Attention.

Member F. T. D. Asso.

Providence, Rhode Island

Johnston Brothers

LEADING FLORISTS

38 Dorrance Street

Member Florists' Telegraph Delivery

DARDS—FLORIST

Established at N. E. Cor. of Madison Ave.
and 44th St., New York, for 44 Years

QUALITY, SERVICE, FAIR PRICES

Members of Florists' Telegraph Delivery

W. S. S.
BUY WAR War Saving Stamps
SAVING STAMPS issued by the
U. S. Gov.

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

- Albany, N. Y.—The Rosery, 23 Steuben St.
Albany, N. Y.—Danker.
- Boston—Thos. F. Galvin, 1 Park St.
- Boston—Penn the Florist, 124 Tremont St.
- Brooklyn, N. Y.—Wilson, 3-5 Greene Ave.
- Buffalo, N. Y.—S. A. Andersen, 440 Main St.
- Buffalo, N. Y.—Palmer's, 304 Main St.
- Cambridge, Mass.—John McKenzie, 1927
Mass. Ave.
- Chicago—William J. Smyth, Michigan
Ave. and 31st St.
- Cleveland, O.—J. M. Gasser Co., Euclid
Ave.
- Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.
- Cleveland, O.—Knoble Bros., 1536 W. 25th
St.
- Cleveland, O.—The Smith & Feters Co.,
735 Euclid Ave.
- Denver, Col.—Park Floral Co., 1643
Broadway.
- Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.
- East Orange, N. J.—Smith, The Florist.
- Fall River, Mass.—Warburton, 495 New
Boston Rd. and 36 N. Main St.
- Fishkill, N. Y.—Wood Bros.
- Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.
- New York—David Clarke's Sons, 2139-
2141 Broadway.
- New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.
- New York—Dards, N. E. corner 44th St.
and Madison Ave.
- New York—G. E. M. Stumpp, 761 Fifth
Ave.
- New York—Kottmiller, 426 Madison Ave.
and 49th St., also Vanderbilt Hotel.
- Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.
- Philadelphia—F. M. Ross, 136 So. 52nd
St., 13 So. 60th St., 212 E. Girard Ave.
- Philadelphia—Chas. H. Grakelow, Broad
St. at Cumberland.
- Providence, R. I.—Johnston Bros., 38
Dorrance St.
- Rochester, N. Y.—J. B. Keller Sons, 26
Clinton Ave. N.
- St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.
- St. Paul, Minn.—Holm & Olson, Inc.
- Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.
- Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.
- Washington, D. C.—Gude Bros., 1214 F
St.
- Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.
- Worcester, Mass.—Randall's Flower Shop,
22 Pearl St.
- New York—Thos. F. Galvin, Fifth Ave.,
at 46th St.

EAST ORANGE, N. J.

SMITH, The Florist


We deliver by automobile in East, West
and South Orange, also Glen Ridge, Mont-
clair, Bloomfield, Newark and New York.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Ave.
DETROIT, MICH.

Artistic Designs . . . High Grade Cut Blooms

We cover all Michigan points and good
sections of Ohio, Indiana and Canada.
Members Florists' Telegraph Delivery
Association.



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1214 F ST. N.W.
WASHINGTON, D.C.

GUDE BROS. CO.

WASHINGTON, D. C.

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WILSON **BROOKLYN**

Main Store
3 and 5 Greene Ave. NEW YORK

Member Florists' Telegraph Delivery Asso.

Phones, Prospect 6800-6801-6802

DELIVERIES IN NEW YORK, BROOK-
LYN and LONG ISLAND

A. T. BUNYARD

NEW YORK

413 Madison Ave. at 48th Street
I GUARANTEE SATISFACTION
MEMBER F. T. D. A.

Quality and Reliability

WARBURTON

FALL RIVER, MASS.

Deliveries of Flowers and Plants
in FALL RIVER and contiguous
territory.

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

DANKER

Albany, New York

The best of F. T. D. Service always

Jinn The Florist

Park St., Boston

CHICAGO Send Your Orders to WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

WORCESTER, MASS.

Randall's Flower Shop

HARRY I. RANDALL, Proprietor.
Member Florists' Telegraph Delivery

S. A. ANDERSON

440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK.
Member Florists' Telegraph Delivery

THOS. F. GALVIN
INC.

NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

KNOBLE BROTHERS

Member Florists' Telegraph Delivery

We are well equipped to handle
your orders.

1836 W. 25th Street CLEVELAND, O.

THE SMITH & FETTERS CO.

735 Euclid Avenue
CLEVELAND, OHIO

Flowers of Every Kind in Season

CLEVELAND

A. GRAHAM & SON

5523 Euclid Ave.

Will take good care of your orders
Members of F. T. D. Association.

Retail Deliveries

to central Hudson River points, on
Telegraphic Order.

WOOD BROS.

FISHKILL, N. Y.

HIGH GRADE PLANTS

For Retail Stores a Specialty

ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.

FLOWERS

The Best at
The Lowest



"I SERVE"

The Largest Popular Priced House in
Philadelphia

F. M. ROSS

Send orders to
136 So. 52nd Street, Philadelphia.
Other Stores
13 So. 60th St., 212 E. Girard Avenue

PHILADELPHIA

Member Florists' Telegraph Delivery
Orders from all except members of
the F. T. D. must be accompanied by
remittance.

JOHN J. O'BRIEN

Florist and Decorator

67 Beacon Street, BOSTON, MASS.
Member Florists' Telegraph Delivery

A UNIQUE HORTICULTURAL CLUB.

Takoma Park, D. C., has a horticultural club of 140 members, half of whom are specialists and scientists of the United States Department of Agriculture. This club was designed to promote gardening, culture of flowers, and beautifying of home grounds, and to aid in civic improvements, as well as to hold contests and exhibitions of flowers and vegetables. The club purchases seeds, bulbs, plants, fertilizer, and gardening implements co-operatively for its members. Educational meetings are held at regular intervals. This year 23 prizes, including 2 loving cups and 11 gold and silver medals, as well as a saving-bank account, will be awarded to club members for the best vegetable gardens.

ST. LOUIS, MO.

FRED C. WEBER

4326-28 Olive St.

Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of

TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

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8-10 West Adelaide St. - TORONTO, ONT

HESS & SWOBODA

FLORISTS

Telephones 1501 and L 1532
1415 Farnum St.

OMAHA, NEB.

Efficient Delivery Service

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JOHN McKENZIE

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PHILADELPHIA

CHAS. H. BRAKELOW F. T. D.

Everything in Flowers

Broad Street at Cumberland

The Park Floral Co.

B. E. GILLIS, President.
E. P. NEIMAN, Secretary.

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DENVER, COLORADO



ROSE PLANTS

OPHELIA DOUBLE WHITE KILLARNEY

2½-inch pots, \$90.00 per 1000. Fine stock, cuttings made from two and three eye cuttings.

THE LEO NIESSEN CO.

1201 Race Street, PHILADELPHIA, PA.

EDWARD REID WHOLESALE FLORIST

1619 - 21 Runstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$2.25 50,000...\$6.75 Sample free.
For sale by dealers.

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WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

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Wholesale Florists
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Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS
Orders Solicited
Hardy Fancy Fern Our Specialty
264 RANDOLPH ST., DETROIT, MICH.

ZECH & MANN

We are Wholesale Florists Doing
a Strictly Wholesale Business

30 East Randolph Street, CHICAGO

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
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by having them prettily illustrated and well printed. Use the colors of nature on the covers. To accomplish this, place your printing order in the hands of nursery catalog and color printing specialists who will plan your catalog, furnish all the illustrations and color plates, and charge but a fair price for the printing. Now is the time to place your order, as our capacity has its limits. Write right now. Estimates and dummies furnished without any obligation incurred.

CAMPBELL-JOHNSON PRINTING CO.

Tenth and Walnut Streets - - - DES MOINES, IOWA
PRINTERS TO THE NURSERYMEN OF AMERICA

IF You Want Anything from Boston Get It From Henry M. Robinson & Co.

For Safety Place Your Orders With Us

HENRY M. ROBINSON & CO.
2 Winthrop Square and 32 Otis Street, BOSTON, MASS.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON May 7		ST. LOUIS May 5		PHILA. May 5	
Roses						
Am Beauty, Special	25.00	to 50.00	50.00	to 60.00	50.00	to 75.00
" " Fancy and Extra	12.00	to 20.00	25.00	to 40.00	30.00	to 40.00
" " No. 1 and culls	8.00	to 4.00	5.00	to 15.00	8.00	to 20.00
Russell, Hadley	18.00	to 15.00	6.00	to 35.00	6.00	to 30.00
Killarney, Ward	2.00	to 8.00	6.00	to 12.00	4.00	to 8.00
Radiance, Taft, Key	2.00	to 8.00	3.00	to 8.00	.....	to
Ophelia, Sunburst	4.00	to 12.00	6.00	to 12.00	4.00	to 12.00
Carnations	12.00	to 15.00	4.00	to 5.00	8.00	to 12.00
Cattleyas	100.00	to 150.00	50.00	to 75.00	75.00	to 100.00
Lilies, Longiflorum	20.00	to 25.00	20.00	to 25.00	15.00	to 25.00
Lilies, Speciosum	8.00	to 20.00	.....	to .....	.....	to
Callas	20.00	to 25.00	15.00	to 20.00	12.00	to 20.00
Iris	8.00	to 10.00	10.00	to 20.00	.....	to
Lily of the Valley	8.00	to 10.00	6.00	to 8.00	8.00	to 10.00
Snape-dragon	8.00	to 10.00	2.00	to 4.00	8.00	to 15.00
Pansies	1.00	to 2.00	.....	to	5.00	to 6.00
Daffodils	6.00	to 8.00	5.00	to 6.00	.....	to
Calendula	2.00	to 4.00	3.00	to 5.00	3.00	to 4.00
Stocks	.....	to	5.00	to 8.00	6.00	to 8.00
Wallflowers	.....	to .....	.....	to .....	.....	to
Mignonette	2.00	to 6.00	3.00	to 4.00	4.00	to 5.00
Sweet Peas	1.00	to 3.00	.50	to 1.25	1.00	to 3.00
Violets	.75	to 1.00	.35	to 1.00	.....	to
Marguerites	3.00	to 5.00	1.50	to 2.00	.50	to 1.00
Gardenias	25.00	to 35.00	.....	to	30.00	to 40.00
Adiantum	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50
Gladioli	16.00	to 25.00	12.00	to 40.00	.....	to
Asparagus Plumosus, & Spreng. (100 Bchs.)	35.00	to 50.00	35.00	to 100.00	60.00	to 75.00

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

Wholesale Growers of Cut Flowers ROSES, CARNATIONS

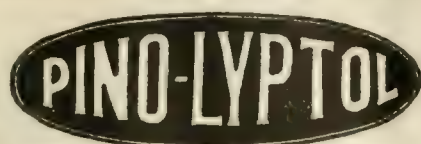
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Wholesale Florists

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This fluid destroys weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

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CORRESPONDENCE SOLICITED.



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Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

1/2 Pint, 30c.; Pint, 50c.; Quart, 90c.; 1/2 Gallon, \$1.50; Gallon, \$2.50; 5 Gallon Can, \$10.00; 10 Gallon Can, \$20.00. Directions on package.

LEMON OIL COMPANY

Dept. S. 428 W. Lexington St., Baltimore, Md.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI May 5		CHICAGO May 5		BUFFALO May 5		PITTSBURG May 5	
Roses								
Am. Beauty, Special.....	50.00	to 75.00	40.00	to 60.00	40.00	to 60.00	60.00	to 75.00
" " Fancy and Extra.....	30.00	to 40.00	30.00	to 40.00	30.00	to 40.00	30.00	to 50.00
" " No. 1 and culls.....	12.00	to 25.00	10.00	to 25.00	5.00	to 15.00	6.00	to 25.00
Russell, Hadley.....	10.00	to 35.00	6.00	to 25.00	10.00	to 15.00	12.00	to 25.00
Killarney, Ward.....	10.00	to 30.00	6.00	to 12.00	3.00	to 12.00	8.00	to 15.00
Radiance, Taft, Key.....	10.00	to 35.00	5.00	to 25.00	4.00	to 12.00	6.00	to 15.00
Ophelia, Sunburst.....	10.00	to 35.00	6.00	to 15.00	6.00	to 12.00	10.00	to 20.00
Carnations								
Cattleyas.....	6.00	to 10.00	3.00	to 6.00	4.00	to 8.00	8.00	to 10.00
Lilies, Longiflorum.....	75.00	to 100.00	35.00	to 60.00	75.00	to 85.00	100.00	to 125.00
Lilies, Speciosum.....	20.00	to 25.00	20.00	to 30.00	20.00	to 25.00	20.00	to 25.00
Callas.....	15.00	to 20.00	12.00	to 20.00	15.00	to 25.00	20.00	to 25.00
Lily of the Valley.....	15.00	to 20.00	2.00	to 4.00	8.00	to 10.00	10.00	to 12.00
Snappedragon.....	4.00	to 8.00	5.00	to 6.00	8.00	to 10.00	10.00	to 12.00
Pansies.....	8.00	to 20.00	10.00	to 15.00	6.00	to 15.00	15.00	to 25.00
Daffodils.....	1.00	to 1.50	1.00	to 2.00	.50	to 1.00	4.00	to 6.00
Calendula.....	2.00	to 4.00	3.00	to 6.00	5.00	to 6.00	3.00	to 4.00
Stocks.....	2.00	to 3.00	3.00	to 6.00	2.00	to 3.00	3.50	to 5.00
Wallflowers.....	6.00	to 8.00	6.00	to 12.00	3.00	to 5.00	.....	to
Mignonette.....	.....	to	1.00	to 2.00	.....	to .....	.....	to
Sweet Peas.....	.....	to 8.00	8.00	to 12.00	3.00	to 6.00	3.00	to 4.00
Violets.....	1.50	to 3.00	1.00	to 3.00	.20	to .75	1.00	to 2.00
Marguerites.....	.....	to 2.00	1.00	to 2.00	.75	to 1.00	.75	to 1.00
Gardenias.....	2.00	to 3.00	1.00	to 2.00	1.00	to 1.50	2.00	to 4.00
Adiantum.....	.....	to 25.00	25.00	to 30.00	20.00	to 30.00	.....	to
Gladioli.....	.....	to 1.00	1.00	to 1.50	1.00	to 2.00	1.50	to 2.00
Asparagus Plu. & Spren. (100 Bhs.)	.....	to 10.00	10.00	to 12.00	.....	to .....	.....	to
	25.00	to 50.00	25.00	to 35.00	35.00	to 50.00	60.00	to 75.00

Flower Market Reports

The Boston market has seen unheard of prices the past week, especially as regards carnations, a sharp advance being induced by the Mothers' Day trade. In some instances the asking price has been from \$12 to \$15, but there have been but few sales, and at this writing it does not seem as though these prices can be obtained. Until the end of the week the rest of the market was not greatly changed from last week. Some of the carnation stock has been very good, but on the other hand there have been complaints about the stock being held too long before being shipped.

Since Easter the supply in all lines, with the exception of sweet peas, has been heavy. Tulips have been arriving in large quantities. Roses and carnations are also lower in price. Greens are well in demand.

There is a moderate supply of roses and carnations, yet it is difficult to move them at quoted prices. The supply of longiflorum, lilies and callas is sufficient for all requirements. Lily of the valley is scarce. Cattleyas

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With each 1,000 gold letters at prices quoted below, we will give

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Sizes No. 1, \$5.00 per 1000

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Paper Specialties
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77 SUMMER STREET
BOSTON, MASS.

and gardenias are in light supply. Daisies, calendulas and snapdragon are all too plentiful. Shipments of Southern lilac are larger with demand good.

SCHOOL SEED TESTING.

In order to assist the seed trade in adjusting itself to the provisions of the new Ohio seed law, a two-day's course in seed testing has been arranged by the Ohio College of Agriculture at Columbus on June 11 and 12. The course is not intended to develop expert seed analysis but to provide sufficient training to enable the average seed dealer to analyze, test, and label the common seeds which he handles. No tuition fee is charged. Each per-

son enrolling, however, will pay \$2.50 for equipment, which becomes his personal property. Further information may be had from the Department of Farm Crops, College of Agriculture, Columbus.

VISITORS' REGISTER.

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READY FOR BUSINESS
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Highest Standard of Quality. Largest
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ROSES! I WANT ROSES!
Have a demand for more than I can supply. Rose Growers Call or Write.
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WHOLESALE FLORISTS
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Telephones, 13-5510 Madison Square **MAURICE L. GLASS, Treasurer**
Consignments Solicited

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Part of Week ending May 3 1919		First Part of Week beginning May 5 1919	
American Beauty, Special	25.00	to 40.00	25.00	to 35.00
" " Fancy and Extra	8.00	to 20.00	8.00	to 20.00
" " No. 1 and culls.	2.00	to 6.00	2.00	to 6.00
Russell, Hadley	3.00	to 35.00	3.00	to 30.00
Killarney, Ward	2.00	to 8.00	2.00	to 8.00
Radiance, Taft, Key	3.00	to 30.00	3.00	to 30.00
Ophelia, Sunburst	2.00	to 10.00	2.00	to 10.00
Carnations	2.00	to 6.00	2.00	to 5.00
Cattleyas	30.00	to 75.00	35.00	to 75.00

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We have a numerous clientele of New York City buyers and the demand exceeds our supply. This is especially true of Roses. We have every facility and abundant means and best returns are assured for stock consigned to us.
Address Your Shipments to
UNITED CUT FLOWER CO. Inc.
111 W. 28th St., NEW YORK D. J. Pappas, Pres.

REED & KELLER
122 West 25th St., New York
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We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
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Florists' Requisites

Boston Floral Supply Co.
347-357 Cambridge St., Boston
SHOW ROOMS, 15 Otis Street and
96 Arch Street
Headquarters for
CYCAS, BASKETS, WIRE DESIGNS
and WAX FLOWERS

A Card This Size
Costs only 90c. per Week
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It would keep your name and your
specialty before the whole trade.
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CERTIFIED PUBLIC ACCOUNTANT
Simple methods of correct accounting
especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
40 STATE STREET BOSTON
Telephone Main 54

When writing Advertisers kindly mention Horticulture

WATSON ON ROSES OLD AND NEW.

William Munro of Garrettford, one of our most expert rose growers, in talking about the passing of the old timers of the cut flower rose world all except American Beauty—made a remark worthy of note. Yes, said he, you talk about Beauty being the only one that has stood the razzle dazzle these thirty years. It has all right. But there's another one that's going to stand just as long. And what's it? sez I. Guess, sez he. Well, sez I, I'm not a rose man but I'd say Mrs. Charles Russell. Wrong, sez he, it's Hadley. H'm sez I, and why. Well, sez he, its got the guts to it like Beauty and its just as hard to do well. Russell, on the other hand, is too easy and it will be overdone in a few years. So Mr. Grower put that in your pipe and smoke it. Bill ought to have been along with the Burton party through Montgomery & Bucks Co. last fall. It would have stirred some of them up a little. But on the other hand he might have been dumb as a clam—unless stirred up with a wee drap. It's a hard job to get a valuable secret out of a man—especially a business pointer. They don't give it away at Sunday School. After July the first the boys will have to find out all their secrets for themselves, which for most of them will be never. William J. Bryan has a lot to answer for.

And speaking of past history our veteran florist, John Westcott, tells us that in 1875 there were only two roses on the list in these days, Safrano and Marechal Neil. Later on Bon Silene used to come from Boston and with them came Bill Stewart, Nick McCarthy, Patrick Welch and Bill Elliott. That was about the start of the commission business in Phila. Among the first of the natives in that time was probably Bill Meehan — although Charlie Pennock and Bill Baker closely followed him. Of these three, the Honorable William J. Baker is the only one left. William E. Meehan has been a fish commissioner for many years, and Charles E. Pennock, as already stated, died in 1891. So we have to take our hats off to William J. Baker as well as to Samuel S. Pennock in this connection

GEO. WATSON.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Part of Week ending May 3 1919	First Part of Week beginning May 5 1919
Lilies, Longiflorum.....	5.00 to 12.00	5.00 to 12.00
Lilies, Speciosum.....	6.00 to 12.00	5.00 to 12.00
Callas.....	4.00 to 8.00	4.00 to 8.00
Iris.....	4.00 to 10.00	3.00 to 10.00
Lily of the Valley.....	3.00 to 8.00	3.00 to 8.00
Snappedragon.....	1.00 to 1.50	1.00 to 2.00
Pansies.....	5.00 to 6.00	5.00 to 6.00
Daffodils.....	1.00 to 3.00	1.00 to 3.00
Calendula.....	3.00 to 10.00	3.00 to 6.00
Stocks.....	2.00 to 5.00	2.00 to 5.00
Wallflowers.....	1.00 to 3.00	1.00 to 3.00
Mignonette.....	2.50 to 4.00	2.00 to 3.50
Sweet Peas.....	1.00 to 2.00	1.00 to 2.00
Violets.....	10.00 to 50.00	10.00 to 50.00
Marguerites.....	1.00 to 1.25	1.00 to 1.25
Gardenias.....	6.00 to 10.00	4.00 to 8.00
Adiantum.....	20.00 to 35.00	15.00 to 25.00
Gladioli.....		
Asparagus Plumosus, & Spreng (100 bunches).....		

CYPRESS GREENHOUSE STOCK

PECKY CYPRESS STOCK

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THE A. T. STEARNS LUMBER COMPANY

NEPONSET, BOSTON

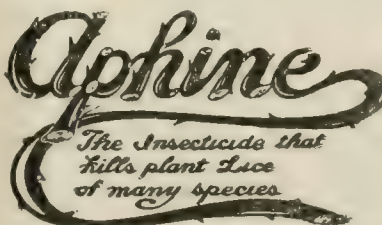
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No.	Diam.	Ea.	Doz.	100
10	20 in.	\$3.25	\$37.50	\$287.50
20	18 in.	2.75	30.00	237.50
30	16 in.	2.25	26.00	195.00
40	14 in.	1.90	22.00	168.75
50	12 in.	1.50	15.00	110.00
60	10 in.	.95	10.50	77.50
70	8 in.	.75	8.25	62.50

The Riverton Tub is sold exclusively by us, and is the best ever introduced. The neatest, lightest, and cheapest. Painted green and bound with electric-welded hoops. The four largest sizes are equipped with drop handles.

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The Recognized Standard Insecticide.
A spray remedy for green, black, white fly, thrips and soft scale.
Quart, \$1.00; Gallon, \$2.50.

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For mildew, rust and other blights affecting flowers, fruits and vegetables.
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For eel worms, angle worms and other worms working in the soil.
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Pulverized or Shredded
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In lawn making, as in all branches of gardening, the preparation of the soil is a primary consideration. The lawn presumably is intended to be a permanent feature, and when one is convinced that a little extra care at the outset will save a great deal of trouble and disappointment later on, the desirability of thorough preparation is at once apparent.

There should be at least six or eight inches of good top soil. If it is deeper than this, so much the better. The result will be evident during dry spells in the shape of fresh green grass when lawns which have an insufficient depth of top soil will be brown and dreary looking. It is important that the soil be of uniform depth and fertility. If it is not, the lawn will present a patchy appearance, especially in periods of drought, owing to moisture and nutriment being unequally distributed.

When grading is necessary, strip the top soil from the part to be cut or filled before the grade is corrected. When correcting the grade, make allowance for the top soil that is to be replaced and also for the subsidence of the disturbed subsoil.

Kentucky blue, the best lawn grass, succeeds best on limestone soils. If there is a deficiency of lime, with a resultant sourness in the soil, an application of 15 pounds of ground limestone, or half this quantity of air-slaked lime, to 300 square feet, will be an advantage. The desirability or otherwise of liming may be determined by pressing blue litmus paper on a handful of the moist soil; if the litmus turns red it indicates an acid condition and the need of lime.

The fertilizer should be spread over the surface before the operation of spading or plowing is commenced. The best fertilizer is well decayed barnyard or stable manure applied about three inches thick all over the plot. This will provide the necessary humus in addition to the fertilizing elements it contains. If barnyard manure is unavailable, one of the numerous brands of prepared humus may be used in smaller quantities. When the ground is already covered

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Peony Dahlia Mrs. Frederick Grinnell. \$10.00 per clump. Cash with order.
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New Peony Dahlia—John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

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Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

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Gold fish, aquarium plants, snails, castles, globes, aquarium, fish goods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

IRIS

Iris E. S. W., a very pale, delicate rose purple flower crowning the often four foot stalk giving a distinguished air of unusual refinement. Excellent shape and growth. 30 plants, \$25.00. Plan to select a seedling to introduce. THE GLEN ROAD IRIS GARDENS, Wellesley Farms, Mass.

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200,000 large, stocky, September transplanted, field grown, blooming Pansy plants, superb strain. All salable stock. Satisfaction guaranteed. \$1.50 per 100, \$14.00 per 1000. Ready now. Cash with order. BRILL CELERY GARDENS, Kalamazoo, Mich.

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Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

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Just Arrived, crop 1918 winter flowering SWEET PEAS, New Zealand grown, the large flowering waved or Spencer type. We have been very fortunate to secure the entire crop of one of the best growers in New Zealand. New Zealand grown seed has always produced the earliest and best blooms, and seed started in August will produce flowers from Thanksgiving until March; requiring a low temperature, these make an ideal crop for the Florist this year. Scarlet, always a good seller. Finest Mixture, all the best colors. Pink and White, Blanche Ferry type. Yarrawa (true), bright rose pink with light wings. Write for further particulars.
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Live Sphagnum moss, orchid peat and orchid baskets always on hand. LAGER & HURRELL, Summit, N. J.

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No. 2

What The Users Say

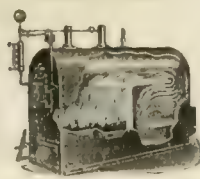
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We spent \$100,000 in building and equipping the largest modern mushroom plant in the world. We purchased in every instance the best of everything we could get, and the fact that we installed a Kroeschell Boiler to furnish our heat is sufficient evidence of our opinion of same.

Since installing this boiler and operating it we have never had any reason to change our opinion.

(Signed) FALMOUTH MUSHROOM
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A Quick Steamer



Water Tube Steam Boiler

Kroeschell Bros Co.,

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Men Who Know Boilers

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NORTH MILWAUKEE,
WIS.



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Washington, D. C.

with a growth of sod, the necessity of applying humus is not so urgent, as the decay of the grass roots and tops will supply any lack. In such cases the addition of commercial fertilizer in the proportion of 5 per cent nitrogen, 8 per cent phosphorus, and 10 per cent potash, at the rate of 12 to 18 pounds to 400 square feet, will suffice.

The fertilizer having been evenly distributed over the plot, the next process is spading up the top soil or plowing in the case of large areas. Never attempt any work on the soil when it is so wet as to be sticky. When spading, the soil should be dug up to a depth of a foot, if the good earth extends that far, at the same time thoroughly mixing in the fertilizer. All clods should be broken up and large stones thrown out. If the ground is covered with grass, the sods should be buried grass side downward. The surface should now be raked with an iron-toothed rake until a finely pulverized seed bed is formed. Usually the tramping the plot receives in the process of fining the surface is sufficient to pack the ground to the required degree of firmness, as shown by footmarks being barely discernible when the plot is walked upon. If the ground is not compacted sufficiently, it will be necessary to consolidate it by more tramping or by rolling with a light roller. The surface must be loosened to a depth of half an inch or so with a rake, before the seed is sown.

When the plot is of such a size that plowing is possible, the work of pul-

verizing the soil after plowing, preparatory to seed sowing, can with advantage be done by using a harrow. It will be necessary, however, to use a rake for the finishing touches as in the case of ground prepared by spading.

A calm day should be chosen for sowing the seed or there will be great difficulty in distributing it evenly. Do the work systematically. Divide the seed into two equal portions. Take one of these, and, starting at one end of the plot, walk back and forth scattering the seed as evenly as possible. Keep the hand low and do not attempt to cover too wide an area at a time. The other half of the seed should be distributed by walking over the plot at right angles to the route traveled in sowing the first portion. This insures an even distribution of the seed. If a large plot is to be sown, it is a good plan to mark off the area into several equal sized plots. Divide the seed to correspond, and sow each plot separately. This is very helpful in apportioning the seed evenly all over the area.

When the seed has been sown, the surface should be lightly raked to cover the seed, and then rolled. If a roller is not available, a tamper is a fair substitute for firming the soil about the seeds. A suitable tamper can readily be improvised by sawing about eighteen inches from a plank two or three inches thick and a foot wide. A hole should be bored in the center of this and a handle of suitable length inserted. A stout broom han-

dle or an old shovel or spade handle can be used for this purpose.

It is not economical to sow grass seed sparingly. When the grass seeds are sown thinly a splendid opportunity is offered to the weed seeds, of which they do not fail to take advantage. This necessitates much back-breaking work to get the lawn clear of weeds and may require even the breaking up of the lawn and a fresh start. On the other hand, a generous sowing of seed ensures a good stand of grass which will choke out many of the obnoxious weeds. The quantity to use is one quart of seed to 300 square feet.

A lawn may be seeded down either in the spring or fall. If made in the spring, the work should be done as soon as possible after the soil is in a friable condition. From the latter part of March until the middle of May conditions are usually suitable. When the lawn is made in the fall, weather conditions largely determine the time of seeding. The seed may be sown at any time from the latter part of August until the beginning of October.

As soon as the grass is between two and three inches high it should be mown. The lawn mower should be sharp and the blades set as high as possible. If the ground is soft or sandy it is a good plan to roll the grass lightly a day or two before mowing. This will compact the soil around the grass roots and prevent the grass from being pulled up when the mower is used.—Montague Free in Brooklyn Botanic Garden Leaflet.

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Vol. XXIX

MAY 17, 1919

No. 20

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LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....483	Clarke, D. Sons..476	Grakelow, Chas. H.....477	McHutchison Co.....463-464	Pulverized Manure Co.....481	Smyth, Wm. J.....477
Alexander, J. K.....464	Coan, J. J.....480	Grey & Co., T. J.....476	McKenzie, John.....477		Stump, G. E. M.....476
Allen, J. K.....480	Cooke, Geo. H.....476	Gude Bros. Co.....476	Marshall, W. E. & Co.....462		Stump & Wal-ter.....462
American Bulb Co.....486	Conard & Jones.....464		Michell, H. F. Co.....473	Radall Flower Shop.....477	
American Forestry Co.....475	Cowee, W. J.....478	Hart, Geo. B.....478	Michigan Cut Flower Ex.....478	Reed & Keller.....480	Thorburn, J. M. & Co.....462
Anderson, S. A.....477	Craig Co., Robt.....463	Heistad, H.....463	Murray, Samuel.....476	Reidel & Meyer.....480	Totty, Chas. H.....464
Aphine Mfg. Co.....481	Campbell-Johnson Printing Co.....478	Hess & Swoboda.....477		Reid, Edw.....478	
		Hews & Co., A. H.....482	Nat. Nurseryman.....482	Reuter, L. J. Co.....464	
Barrows, H. H.....464	Dale Estate.....484	Hill Co., E. G.....478	New Eng. Florist Supply Co.....479	Rice & Co., Jerome B.....462	United Cut Flower Co.....480
Bay State Nursery.....463	Danker.....476	Hill, D. Nursery Co.....475	New Eng. Nursery series.....464	Robinson, Henry M. Co.....480	
Bobbink & Atkins.....463	Dards.....476	Howard, W. D.....475	Niessen, Leo.....478	Robinson, H. M. & Co.....478	Vincent, R. Jr. & Sons Co.....461
Boddington Co., Inc., A. T.....473	Dolansey & McDonald.....479	Irwin, R. J.....462	Nolan, T. J.....476	Roehrs, J. Co.....464	
Bolzano & Son.....462	Dreer, H. A.....482	Johnston Bros.....476	Old Town Nursery series.....464	Roland, Thomas.....477	Wants, For Sale, etc.....482
Boston Floral Supply Co.....480	Dunslop, John H.....477		Palmer, W. J. & Son.....477	Ross, F. M.....477	Warburton.....476
Breck, J. & Sons.....462	Dysart, R.....480	Kasting, F. F. Co.....478	Park Floral Co.....477		Weber, F. C.....476
Breitmeyers, J. Sons.....476		Kelway & Son.....462	Parshelsky Bros.....482	Sheridan, W. F.....480	Wilson.....476
Budlong, J. A.....478	Edwards Folding Box Co.....478	Kervan Co.....480	Pennock S. S. Co.....471	Siebrecht, Geo. C.....480	Wood Bros.....477
Bunyard, A. T.....476	Elm City Nursery series.....464	Knoble Bros.....477	Pino Lyptol Chemical Co.....479	Siggers & Siggers.....483	Woodmont Nursery series.....464
Burlington Wil- low Ware Co.....476	Farquhar, R. & J. Co.....462	Knoeschell Bros.....483	Pierce Co., F. O.....482	Skidelsky, S. S. & Co.....462	Woodruff, S. D. & Sons.....462
Burnett Bros.....462	Fengar, E. W.....463	Kuobler, W. H.....480	Pierson, A. N.....461	Smith, Elmer D. & Co.....464	
Burpee, W. A. & Co.....462	Ford, M. C.....480	Kottmiller.....476		Smith, W. & T. Nursery Co.....475	Young, A. L.....480
	Froment, H. E.....480	Lager & Hurrell.....464		Smith, The Florist.....476	Young, John.....480
Carter's Tested Seeds, Inc.....462	Galvin, Thos. P.....477	Lemon Oil Co.....479		Smith & Feters Co.....477	
Childs, John Lewis.....471	Gasser Co., J. M.....477	Liggit, C. U.....463			Zech & Mann.....478
	Graham & Son.....477	McCarthy & Co., N. F.....475			Zinn the Florist.....477

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HORTICULTURE

Vol. XXIX

MAY 17, 1919

No. 20

LOOKING AHEAD WITH HENRY PENN

BY THE EDITOR

Henry Penn, just back from a trip through the middle west, including Buffalo and Cincinnati, finds conditions encouraging from the standpoint of the retail florist. "Practically all of the stores," he said to the writer, "have full staffs of employees now. With a few exceptions the boys who joined the army have returned. The situation in the greenhouses, however, is quite different. It is impossible to get enough competent help. This makes it difficult to handle the output or to grow as much material as the market can use."

Mr. Penn found that wages had been materially advanced all along the line. He also found a disposition on the part of retail florists to keep shorter hours. He has some pronounced and progressive views on this subject, too. "In most cities," he said, "the majority of the florists' establishments open at seven o'clock. In our store, however, business is not begun until 7.30. We have two shifts, one going off at six o'clock in the evening and the other at eight o'clock. I can see the time coming before very long when all of the flower stores will close at six o'clock. There is no more reason for the florists to keep open later than for any other line of business."

Mr. Penn was asked about the likelihood of getting more young men to take up greenhouse and floral work. "There was little inducement," he responded, "under old conditions for bright energetic young fellows to enter this business. The pay was small and the hours were long. Several curious conditions also existed. For one thing, every grower who had a son expected him to help out in the business, but he never thought of paying him the wages which he would have had to pay an outsider. If he had seven sons he considered himself just that much better off, but would never have believed it possible to hire seven men at regular wages. Now this is being changed. The openings in other lines of work have drawn heavily on the trade. If a man wants to keep his boys, he has to pay them well and make their hours reasonable. This is one of the most obvious results of war time conditions, and it exists all over the country. In my opinion it has placed the business on a very much better footing than ever before.

"Of course it has helped to bring about much higher prices for flowers which the public has to pay. Many growers and florists have been skeptical about the possibilities of selling flowers at these increased rates. Therefore they have worried exceedingly about the necessity of paying higher wages and making an eight or even a ten hour day. Some of them have felt that they would be better off to retire from the business. Now this situation is being met by the publicity campaign now being carried on. By this means the public is being educated to the point where it accepts increased costs as a matter of course, and with a certain degree of complacency. It is the most important agency in putting the whole business of growing and selling flowers on a higher basis, with better conditions for employees and more profits for employers. The good result is going to be felt all along the line, for the work will attract a class of intelligent, active young men, such as would not tolerate the hard conditions which prevailed until recently. There are still men in the trade who are looking backward instead of forward. They are not willing to accept the new order of things, as is seen by their disinclination to help with the publicity fund or otherwise adopt progressive methods. It is a part of our business as live florists, looking into the future, to help with the education of these men as well as with that of the general public."

How about the new outlook? "So far as I can see the situation as it stands now will last for at least two years. That length of time will elapse before growers will be back to normal conditions. Just now there is a very marked shortage of bedding plants, and this will not be remedied for some time. While the coal supply was short and it was necessary to curtail production, growers concentrated more on roses or other stock which would bring fairly large returns, allowing the bedding stock to go by the board. Prices will remain high for two years, as I said, and wages will keep up, too. In the end there probably will be a reduction all along the line, but it will come with a general decrease in the cost of living, so that the florist and his employees will maintain their advanced position. I do not believe that the steps taken in the last year or two will ever be retraced."

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Memorial Day outlook

When every prospect pleases and only the weather is vile, is the way the florists paraphrased the poet's remark the first of the week. After the weather cleared they began to wonder if it were going to be so hot as to bring out the flowers too fast. All things considered, florists everywhere are well satisfied with conditions. The volume of business in some lines is less than usual, because of the scarcity in stock, but on the other hand prices are two hundred per cent higher, which means a fine cleanup. Several interesting features are to be noted. There is little call now for the cheaper flowers of former years, such as lilacs and candytuft except in the smaller towns. The people who formerly bought them get a few cut flowers and a magnolia wreath. The change began last year, when for the first time one large Boston firm lost money on candytuft. The sale of artificial flowers and magnolia wreaths will be unprecedented. Without doubt more than 100,000 wreaths will be disposed of in the New England trade. Even some of the alley dealers are expecting to sell five thousand or more. Some of the stuff offered is very inferior, but it goes this season. Even the dealers are surprised at the way in which the public is buying. Who shall say that the slogan, "Say it with flowers" should not have at least part of the it with flowers" should not have at least part of the

Window boxes

Just before the war the plan of using boxes at the windows of business houses and even of manufacturing establishments was gaining in favor. Of course many firms dropped the matter while war conditions prevailed, although a few concerns, like the Filene Company in Boston made a somewhat elaborate display last year. This season there seems to be a disposition to take up the subject again, and the movement may well be encouraged by the florists. It is true that there is a shortage this season of such plants as are commonly used in window boxes. Yet as a rule there will be no difficulty in filling orders. The Florists' Club in Cleveland seems to be taking the lead in the matter, perhaps because the mayor of the city several years ago gave an official endorsement to the plan of using window boxes

on public and business buildings. When such boxes are properly cared for they add greatly to the appearance of a business house and of business thoroughfares, the floral suggestion being exceedingly welcome during the hot summer months.

Dry sprays

HORTICULTURE is reporting experiments made in New Jersey with the use of dry sprays for combatting strawberry weevil. Apparently powdered poisons and bordeaux mixture in powdered form are growing in popularity, especially with amateurs, because of the little work required to prepare them for use. HORTICULTURE would like to have reports from professional gardeners who have experimented with dry sprays as to the results obtained, as compared with wet mixtures.

Mr. Wilson on Quarantine No. 37

Looking over recent numbers of HORTICULTURE I have been much interested in the opinions voiced apropos of Quarantine No. 37. That HORTICULTURE has taken and maintained such a proper and unflinching stand in opposition does not surprise me. Quite the contrary. It would be false to its principles to do otherwise. Why such a ludicrous measure, wrong in principle and arbitrary in spirit, should have received the signature of the Secretary of Agriculture, passes the wit of common mortals. Its purpose is to keep out further plant diseases and noxious plant pests, and the tacit implication is that it will do so, though even its framers hesitate to claim that of a surety it will effect this. That it will not achieve this Utopian dream goes without saying, but that it will severely handicap the development of gardens in America is equally obvious. Had such a law been in force ten, twenty, fifty years ago this country would have been without a great many plants of beauty and usefulness to her citizens, but whether plant pests would have been less numerous is, to say the least, problematical. The whole question of noxious plant pests and their control is admittedly most intricate and difficult, and is intimately bound up in the much larger question of man's modern methods of civilization. The solution will not be found in such simple if drastic action as plant exclusion.

No one desires to bring into the country a pest in any shape or form. All garden lovers will agree that regulations and proper inspection of plant importations is eminently desirable, but that a small group of men, no matter how capable, should be empowered to dictate what should and should not be grown in American gardens is preposterous. That the importation in limited quantities of plant novelties and necessities through the Office of Foreign Seed and Plant Introductions of the Department of Agriculture is to be allowed, will be small comfort to plant lovers generally, much less to those who have had experience of the treatment meted out to such aliens.

As one whose unselfish interest is in helping forward the development of American gardens, which in effect is the converting of dwelling places in homes, I join with others of like ideals in the earnest hope that even at this, the eleventh hour, Quarantine No. 37, well intentioned, but none the less disastrous to American horticulture, may be repealed and its place taken by a measure fair in principle, liberal in spirit, serviceable in application and in effect beneficial to American gardens

E. H. WILSON.

THE BEST OF THE FLOWING CRABAPPLES

It would be difficult to decide which is the finest of the flowering crabapples, so many handsome species or varieties are now in cultivation. In fair competition, though, probably the palm would be carried away by *Malus Arnoldiana*, a comparatively recent hybrid, probably having *M. floribunda* and *M. baccata* for its parents. If not the loveliest of all the crabapples, it certainly stands in the front ranks and is to be valued not only for its extreme floriferousness and the beauty of its blossoms, but also for its general habit, being shrubby with branches that arch gracefully.

Several of the different crabapples have a shrubby habit of growth, although they may become fairly large with age. *M. floribunda* is never really tree-like in habit, and even when it gets to be twenty-five feet high, it looks like a broad, round topped bush. It is a very handsome garden subject, and blooms profusely every year. The buds are pink, but the flowers are white and as all the blossoms never

unfold at the same time, a most pleasing pink and white combination results.

All of the crabapples hybridize very freely, so that botanists have difficulty in keeping track of them. Some of them, too, vary in their habit. *M. floribunda*, for example, often drops its fruit early in the winter and yet there are specimens on which the fruit persists until late in the spring, providing a feast for the birds all the winter through. The Siberian crab, *M. baccata*, has been known longer, with one exception, than any of the Asiatic species. It was introduced into Europe as long ago as 1784, and grows into a tall tree. Its pure white flowers are very fragrant, and are succeeded by small, yellowish fruits. It is extremely hardy and is recommended for the colder portions of this country. Mr. Ernest H. Wilson has said that it ought to be used in the northern regions as a stock for the common apple.

The Chinese crabapple, *M. spectabilis*, has been known for several

years longer than the Siberian crab. It is a smaller tree, with pale pink blossoms. An attractive hybrid, with *M. spectabilis* as one of its parents, is *M. Scheideckeri*.

One of the best known crabapple trees in gardens is the co-called Parkman crab, *M. Halliana*, which gets its common name from the fact that the first man to cultivate it in this country was the well known historian Francis Parkman, who had a specimen in his Boston gardens. Dr. George R. Hall, whose name it rightfully bears, sent seeds from Japan in 1861. Although the family of crabapples has steadily been growing, very few species equal the Parkman crab for beauty.

For a dwarf plant, *M. Sargentii* is most desirable. It is a plant which ought to be used widely on estates, as well as in small gardens. It is extremely handsome when covered with white flowers from the tip of the topmost twig to the lower branches, which rest on the ground. It can be used advantageously for covering embankments. As suggested by the name, this little tree was introduced by Professor Sargent, who discovered it in Japan when it was in fruit and sent seeds home.



MALUS FLORIBUNDA IN A PLEASING SITUATION

NEWS AND COMMENT

BOSTON.

The next meeting of the newly organized florist club of Boston will be held on the evening of May 30, at 7 o'clock at the Parker House, and will take the form of a banquet. At this meeting it is expected a constitution will be adopted and other important business transacted. In the course of the evening, the company will be addressed by Sailor Ryan. This organization, which will embrace growers, retailers and salesmen, promises to become very effective in smoothing out such difficulties as arise from time to time in the trade, and should do much to promote the prosperity of the florist trade in Boston.

E. H. Wilson, of the Arnold Arboretum, lectured before the Chestnut Hill Garden Club recently.

Leonard Barron, of the Garden Magazine, has been visiting personal and business friends in the city the past few days.

George Allen, of Arnold & Fisher in the Exchange, is back at work after an illness.

CHICAGO.

At the last meeting of the Chicago Florists' Club it was voted that the club have a basket picnic the first Sunday in August. Arrangements were made for soliciting prizes for the picnic events. Fred Lautenschlager then introduced Lieut. Parkinson who described his experiences at sea, when his boat was struck with a torpedo from a submarine. He ended his vivid portrayal with an earnest plea for going over the top with the Liberty Loan.

Setterberg, florist, of 6 Chicago avenue, Oak Park, has sold his store to Wm. H. Muir, a brother of John Muir, the South Side florist.

PHILADELPHIA

Robert Craig starts May 17 on a trip to Porto Rico. He feels that the salt sea breezes will do him a lot of good after the strenuous season of hard labor and help shortage on his Norwood place. He also waxes poetical in advance over the waving palms, the floral galaxy and the brilliant sunshine of the tropics. All the pleasures of anticipation are his and we wish him a full realization of his highest hopes. Au revoir and safe return.

Tom Mitchell came back to work on the 7th. He is one of the oldest employees of the Pennock Company, and

suffered a nervous breakdown March 18. He looks pretty thin, and is weak in the pins as yet; but is glad to get back after his two months siege—and his many friends are all very glad to see him.

Will some one of our expert botanists kindly tell us the botanical name of the pussy willow that has the small pink catkins. We have tried to find out from a number of our nurserymen but up to date have got nothing definite. Bet you Brother Thatcher knows! What's he doing these days? Haven't heard from him recently in the pages of HORTICULTURE, and we sure need men like him now that we have lost our old standbys like Jackson Dawson and W. J. Stewart.

Wallace Pierson brought two very fine exhibits to the monthly meeting of the Florists' Club, May 6th. One was his new rose Crusader the other another new rose called Pilgrim. We congratulate Mr. Pierson on his names. The first brings to mind Richard of the Lim Heut the other the hardy wayfarers who founded America. That's the way to appeal to the poetic—which is the soul of all this we try to tell them today by our slogan of "Say it with flowers." Crusader is a brilliant crimson, Pilgrim a charming bright pink rather higher in general effect than Jonkheer Mock. But we will have to know both better before we can give more than a genial welcome. Anyhow they certainly look promising. Take a chance. Why can't the Jonkheer Mocks be equally wise in charming names.

Alfred Burton's Russells were the wonder of the meeting. No one would have believed that such wonderful Russells could be produced unless he had seen them.

It has been suggested that the Italians have been extremely moderate in their demands—since they do not claim Great Britain and a few other kingdoms that were formerly—very much formerly, it is true—part of the Roman empire.—Savannah News.

Which suggestion is respectfully passed along to the doughty Romans who concocted quarantine No. 37. They will appreciate the glorious spirit, no matter if American Horticulture is killed by the onslaught.

Senator Borah, probably orders his breakfast in this fashion: "Two boiled eggs (I know they'll be bad), toast (it will be burnt, of course) and coffee

(dishwater, no doubt). But bring 'em along!"

Sounds like the talk of one of our overly righteous flower growers. One of those who are all the time finding fault with the rascally commission man and the rascally retailer.

The lawn story by Montague Free (p. 458 May 10), is excellent and timely and you have done a meritorious act in publishing it. I would like to add to his (Mr. Free's) statement that Kentucky Blue Grass, which he says is "the best lawn grass," should not be sown alone if one wishes to get the best results in all soils, and in early spring, summer and late fall. Other varieties are necessary to accomplish this and the up-to-date seed houses have lawn formulas containing ten or twelve other varieties in proper quantity and variety according to the soil, climate, etc.

Those who wish more extended information get: "Lawns and Lawn Making," by Leonard Barron; 174 pp. \$1.00 and "Barenbrug on Grasses" 102 pp. \$1.00; both of which books can be had from the HORTICULTURE Publishing Co., 147 Summer St., Boston, Mass., at advertised prices.

TRIBUTE TO MR. STEWART.

The following resolutions on William J. Stewart, late editor of HORTICULTURE, were adopted at the last meeting of the Gardeners' and Florists' Club of Boston:

Whereas, It has pleased Almighty Providence to remove from our midst our late member, William J. Stewart,

And Whereas, It is but just that a little recognition of his many services should be had, therefore be it

Resolved, That while we bow with humble submission to the will of Almighty God, we do not the less mourn for this fellow member who has been taken from us.

Resolved, That in the death of William J. Stewart, the Gardeners' and Florists' Club of Boston has sustained an almost irreparable loss in the demise of its first president and one who since the very inception of the club has taken the keenest interest at all times in its welfare.

Resolved, That we deeply lament his loss, not only to our club but to the whole horticultural world, and when his prolific pen was stopped by the hand of death, horticultural literature sustained a severe blow.

And Whereas, William J. Stewart as a man has always commanded the respect of his associates and fellowmen, and has ever been deserving of the biggest honor at the hands of all lovers of horticulture and floriculture

and for his unselfish devotion to all things pertaining to the beautiful,

Resolved, That the members of the Gardeners' and Florists' Club of Boston with the deepest sorrow deplore the loss of William J. Stewart.

Resolved, That we sincerely condole with the family of the deceased on the dispensation with which it has pleased Divine Providence to afflict them, and commend them for consolation to Him who orders all things for the best.

Resolved, That the resolutions be placed upon the records of the Club, and a copy thereof be transmitted to the family of our deceased member.

FREDERICK E. PALMER,

WILLIAM DOWNS,

ROBERT CAMERON,

Committee on Resolutions.

WINTER COURSES AT CORNELL UNIVERSITY.

Now that the country is emerging from war-time activities and we are again resuming a normal life, there is a large call for experienced men in commercial floriculture and gardeners on private estates. The Department of Floriculture, of the College of Agriculture at Cornell University, is endeavoring to equip men to meet the call by offering unusually attractive short courses next winter, beginning November 5th and closing with Farmers' Week, which is about the second week in February.

This is a rare opportunity for young men, especially the sons of florists who have had considerable practical experience, to get a scientific training at comparatively low cost. For these men especially interested in commercial floriculture, there are given courses in greenhouse construction and heating, the general principles which govern greenhouse practice, and the methods followed in the best cultural practices in growing florists' crops. Those students who desire a certificate of proficiency are required to take in addition to the courses mentioned, courses in agricultural chemistry, soils and plant diseases. Courses in plant breeding, injurious insects, extension work and rural improvement may also be elected. Certificates of proficiency are not given, however, until the student has subsequently spent a full year in floricultural work.

For outdoor gardeners there are special courses in gardening and garden flowers as well as a large list of general courses which are necessary for proficiency in work in parks or on private estates. There are also courses specially planned for those who are interested in growing flowers for the home in an amateur way.

Now is the time to make plans for next winter, and the Secretary of the College of Agriculture at Cornell University, Ithaca, N. Y., or Professor E. A. White, Department of Floriculture, will be glad to give any information desired regarding the courses.

NEW YORK STATE ITEMS.

Walter L. Wright, the Shortsville florist, has purchased one of the large greenhouses in Canandaigua, formerly owned by R. H. McKerr, and will move the building to Shortsville.

New greenhouses are being built by Oliver L. Ecluse & Son in the rear of their property on West Main street, Sayville.

CINCINNATI.

The Cincinnati Florists' Society met at H. W. Sheppard's place on Monday evening.

William Niehaus has opened a new retail store. It is at Montgomery & Clarion in Evanston.

Last week's visitors were Martin Weber, Brookville, Ind.; H. G. Haverkamp, Rising Sun, Ind.; H. Cheeseman, representing Ward & Co., New York City, and G. W. Frisch, Dayton, Ohio.

BOSTON FLOWER SHOW.

The May exhibition of the Massachusetts Horticultural Society will be held at Horticultural Hall, Saturday and Sunday. Interesting exhibits of tulips, narcissus, pansies and hardy flowering shrubs are expected as well as collections of wild flowers and vegetables.

The exhibition is free and will be open Saturday from 12 to 6 and Sunday from 1 to 6 o'clock.

SEED BILL VETOED.

It is of interest to the New York seed trade that Governor Smith granted a hearing, May 7th, at the Executive Chamber, Albany, on Assemblyman Witter's seed bill (Int. 183), which has resulted in the Governor vetoing the bill.

Getting Rid of Moles.

With my index finger I make a small opening in the runs; I pour in each hole about a tablespoonful of gasoline. As the moles are quick to throw back dirt and there may be many in the run, a second application may be necessary.—E. A. T. in *Rural New Yorker*.

LAWN GRASS SEED.

Kentucky blue grass (*Poa pratensis*) is considered to be the best grass for lawns in this section, and should form the basis of all grass seed mixtures. Red top (*Agrostis alba*) and Rhode Island bent (*Agrostis canina*) are used, associated with Kentucky blue, to cover the ground until the latter gets a good start, when it may be expected to crowd them out. A good proportion to use is two parts, by weight, of Kentucky blue grass to one each of red top and Rhode Island bent.

The use of white clover (*Trifolium repens*) as an ingredient in lawn mixtures is largely a matter to be decided by the personal taste of the lawn maker. It is considered to be a good practice to use clover when making a lawn on sandy soil. It is deep rooting, withstanding drought well, and protects the young grasses until they become established. On soils that are suitable to lawns, clover is usually crowded out in two or three years by the grass. If it is desired to use clover, the seed should be sown at the same time as the grass, but as a separate operation. Clover seed is heavy and is liable to sink to the bottom of the package if mixed with grass seed before sowing. This results in an uneven distribution of clover and a patchy lawn. Use one ounce of seed, or a little over, to 300 square feet.

For shady places where the ordinary grass mixtures will not thrive, those kinds which will stand shade conditions should be planted. The wood meadow grass (*Poa nemoralis*) is one of the best of these, but appears to be a scarce article at present. Kentucky blue grass, Rhode Island bent, and Canadian blue grass (*Poa compressa*) are also good.

When only a small lawn is to be seeded, it is probably the best plan to purchase a grass mixture from a reliable seedsman, rather than to buy the separate ingredients. Most seedsmen have mixtures ready prepared for ordinary soil, for shade, for sandy soil, for tennis courts, and so on. Avoid low-priced grass seeds, for they are not cheap. There is great variation in the grades of grass seed. Red top varies in weight from 10 to 45 pounds to the bushel; Kentucky blue, from 10 to 22 pounds, the difference being caused by the presence or absence of chaff and foreign matter. It is easy to see that a low-priced mixture, with a large percentage of chaff, is not a good purchase.

TEXAS FLORISTS TO MEET JULY 9-10.

President W. J. Parker, of the Texas State Florists' Association, has called for a meeting of the association to be held in Austin, Texas, July 9-10.

The Texas florists have not held a regular meeting for two years on account of conditions brought about by the war, and the July meeting is expected to again put things in order and get the association back into working trim. The florists of the state and adjoining states will be urged to come to the convention to place their orders for supplies for the next season, hence this is going to be an excellent opportunity for the trade to get in touch with the florists of the Southwest.

All who will make exhibits are requested to immediately write Secretary Louis J. Tackett, Austin, Texas, so that space may be reserved. This is expected to be one of the largest meetings of florists ever held in the Southwest.

MASSACHUSETTS HORTICULTURAL SOCIETY

The coming exhibitions of the Massachusetts Horticultural Society at Horticultural Hall, Boston, will be as follows:

May 17-18—Flowers, including tulips, hardy narcissi, pansies, lilacs, hardy flowering shrubs and wild flowers. Vegetables—Asparagus, cauliflower, lettuce and collection of six varieties.

June 7-8—Iris exhibition, also rhododendrons, hardy azaleas and hardy herbaceous flowers. Vegetables in all varieties, also collections.

June 21-22—Roses, peonies, strawberries, cherries and vegetables.

July 5-6—Sweet pea exhibition, also Iris Kaempferi, hollyhocks, perennial larkspurs, collections of wild flowers, fruits and vegetables.

August 9-10—Gladioli, phlox and asters, fruits and vegetables.

August 30-31—Products of children's gardens.

September 11-14—Dahlias, hardy herbaceous flowers, Japanese anemones, wild flowers, apples in 34 classes, 10 classes for pears and awards for plums, grapes, quinces and melons. The premium list for the exhibition also provides first, second and third prizes for vegetables of nearly every kind.

November 8-9—Autumn exhibition of fruits and vegetables.

Copies of the schedules may be had upon application to the secretary, Wm. P. Rich, Horticultural Hall, Boston, Mass.

THE HORTICULTURAL SOCIETY OF NEW YORK.

The fall exhibition of this society will be held from October 30th to November 2nd at the American Museum of Natural History. The announcement is made thus early so that those desiring to exhibit may have ample time in which to prepare. Schedules will be ready shortly, and may be had by addressing the secretary, George V. Nash, New York Botanical Garden, Bronx Park, N. Y. City.

GEORGE V. NASH, Sec.

STAMFORD HORTICULTURAL SOCIETY.

At the regular monthly meeting eleven applications for membership were made and three new members were elected. The following exhibits were awarded prizes: Collection of pansies by F. Whitehouse, very highly commended; collection of pansies by Mrs. Thos. Harney, highly commended; vase of outdoor flowers, *Allysum sanatile* compactum, *Arabis Alpina* and Grape Hyacinth by Mrs. Thos. Harvey; vote of thanks; vase of carnations by F. Whitehouse, highly commended; vase of carnations, *Enchantress Supreme*, by James Foster, highly commended; vase of *Brassia varicosen* by A. Patterson, cultural certificate; two vases of *Anemone St. Brigid* by A. Patterson, highly commended; vases of *Narcissus Sir Watkin* and *Emperor* by A. Patterson; highly commended; vase of *Calendula* by F. Whitehouse, vote of thanks; vase of violets by M. J. Quirk, vote of thanks; vase of snapdragons by M. J. Quirk, highly commended; vase of sweet peas, *Blanche Ferry*, by M. J. Quirk, highly commended; vase of *Calendula* by Walde mar Osterby, vote of thanks; vase of English Wallflower by A. Whitelaw, vote of thanks.

The committee for the Summer Flower Show reported that so far they had not decided on the place where the show will be kept. Mrs. Blakeley received a rousing vote of thanks for her very interesting lecture on "What Has Become of the Flower-lovers?"

G. C. BOON, Cor. Sec.

GARDENERS' & FLORISTS' CLUB OF BOSTON.

The next regular monthly meeting of the club will be held at Horticultural Hall, Boston, on Tuesday evening, May 20, at 8 o'clock. F. E. Palmer of Brookline will be the lecturer of the evening, and his subject will be

"Some Fundamentals of Proper Accounting for Florists." The speaker is an able one and his topic should prove both timely and interesting. There will be exhibits of spring vegetables in addition to plants and cut flowers, and considerable business of importance will come up for discussion. The club purchased \$250 worth of the recent issue of Victory Liberty Loan Bonds.

W. N. CRAIG, Sec.

THE HOLYOKE AND NORTHAMPTON FLORISTS' AND GARDENERS' CLUB.

The regular monthly meeting of the club was held May 6th with G. H. Sinclair at his Smith Ferry greenhouses, Holyoke, Mass., D. J. Gallivan presiding in absence of Harold Keyes, the president. The meeting was mostly taken up with a discussion of plant prices. The exhibits were rather few and discouraging. Members were urged to keep up the good spirit of the past. H. E. Downer of Smith College Greenhouses, Northampton, Mass., won the monthly prize with a *Pelargonium*, Mme. Thibaut, which scored 80 points.

A. H.

COMING MEETINGS.

Chicago—American Seed Trade Ass'n, annual convention, June 24 to 26. Secretary, C. E. Kendell, 216 Prospect Ave., Cleveland, O.

Chicago — American Association of Nurserymen, convention, Hotel Sherman, Chicago, June 25-26-27. Charles Sizemore, Louisiana, Mo., Sec'y.

Detroit, Mich.—S. A. F. and O. H. Convention at Acadia Hall, Aug. 19, 20 and 21. Secretary, John Young, 1170 Broadway, N. Y. City.

Hartford, Conn.—Conn. Hort. Society, fall flower show, Sept. 9, 10 and 11. Sec'y Alfred Dixon, Wethersfield, Conn.

New York City.—The American Institute and the American Dahlia Society, exhibition of dahlias in the Engineering Building, 25-33 West 39th St., Sept. 23 to 25. William A. Eagleson, 322-324 West 23d St., Secretary.

New York City—The American Institute and the Chrysanthemum Society of America, exhibition of chrysanthemums in the Engineering Bldg., 25-33 West 39th St., Nov. 5 to 7. William A. Eagleson, 322-324 West 23d St., Secretary.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

The Detroit Convention.

Before starting on a trip in the interests of the National Publicity Campaign, the Secretary visited Detroit for the purpose of laying out a floor plan of Arcadia Auditorium to cover the requirements of the Convention and Trade Exhibition. In this work he was rendered material assistance by Vice-President E. A. Fettes, and Wm. Dilger, of the Breitmeyer Landscape & Nursery Co.

Arcadia Auditorium is an ideal building for purposes of the Convention, as it presents an opportunity for holding the meetings and the Trade Exhibition on the same floor, without interference of one with the other, yet at all times connecting. It may be necessary, however, to locate the cut flower exhibits, and the offices of affiliated organizations on the second, or balcony floor.

Floor plans showing available spaces in the Trade Exhibition will be issued this month, and the outlook at present is that every square foot will be reserved long in advance of the time of opening.

National Publicity Campaign.

Leaving Detroit, the Secretary, on April 24th and 25th was in Toledo in the interest of the Campaign Fund. The genial Thomas Magee, of the Scottwood Greenhouses, gave generously of his time in escorting the Secretary to the establishments of various growers in the vicinity, all of whom subscribed to the Fund. Calls were also made on all the retail florists of the city, and many glass and other signs covering the slogan "Say it with Flowers" will hereafter be on display. The Toledo florists evinced considerable enthusiasm over the large Easter business accomplished, much credit for it being given to the work of the Campaign. Several new members were secured for the S. A. F.

In Columbus, next day, the Secretary was in charge of H. Wilson and Carl O. Jagsch, who devoted much time in an effort to see that as much territory as possible was covered, and all in the trade in Columbus called upon. Several substantial subscriptions to the Fund were recorded, and requisitions for the various aids provided by the Promotion Bureau booked. Quite a

few new S. A. F. members were obtained, including one life member.

April 28th found the Secretary in Dayton, O. Practically all the Dayton florists are already enrolled as members of the S. A. F. and many have contributed to the Publicity Fund. All in the trade were called upon and expressions of their appreciation of the Society's work were many and sincere. The Secretary regretted missing the veteran Warren G. Matthews, a life member of the Society for many years, but he had the pleasure of a cordial reception by Mrs. Matthews.

Indianapolis was the next City on the itinerary, where April 29th and 30th were spent under the tutelage of Messrs. Irwin G. Bertermann, A. F. J. Baur and his partner, Mr. Steinkamp. These gentlemen gave up business for the best part of two days in the interest of the Society and its work, seeing to it that the Secretary visited all of the florists in Indianapolis and vicinity.

More Subscriptions.

The following subscriptions have been received and are in addition to those previously announced, annually for four years unless otherwise stated.

H. F. Drury, Galesburg, Ill. (Addl. Sub.)	\$10
C. L. Jenkins & Son, Anacosta, D. C. (1 yr.)	25
F. E. Cremer, Hanover, Pa.	10
Jos. R. Goldman, Middletown O.	25
Frank A. Schneider, Cincinnati O.	10
E. Alfred Murphy, Saylor Park, O.	10
Edwin E. Temperly, Indianapolis, Ind.	5
Sam Kuhn, Cincinnati, O.	10
Frank A. Volz, Cincinnati, O.	10
R. Witterstaetter, Cincinnati, O.	20
Wm. Schuman, Newport, Ky. (3 yrs.)	10
Tromey's Flower Shop, Cincinnati, O.	60
Julius Baer, Cincinnati, O.	75
H. W. Sheppard, Cincinnati, O.	50
John Sunderman, Cincinnati, O.	10
L. F. Murphy, Cincinnati, O.	25
Farrell & Co., Cincinnati, O.	20
Cinn. Cut Flower Exchange, Cincinnati, O.	25
The Jos. H. Hill Co., Richmond, Ind. (Addl. Subn.)	100
J. A. Peterson, Westwood, Cincinnati, O. (Addl. Subn.)	25
F. I. Drake & Co., Pittsfield, Mass. (Addl. Subn.)	5
D. B. Kelly, Franklin, Ind.	5
Donald McLeod, Concord, N. H.	10
A. Klokner, Wauwatosa, Wis.	5
A. Wiegand's Sons Co., Indianapolis, Ind. (Addl. Subn.)	25
Peter Weiland, New Castle, Ind.	10
The Pennock Plantation, Jupiter, Fla.	5
Josiah L. Young, Watervliet, N. Y.	5
Johnson's Greenhouses, Memphis, Tenn. (1 yr.)	25
Charles Thienel, Bayside, L. I.	2
J. Henry Bartram, Lansdowne, Pa. (Addl. Subn.)	25
Jno. F. Sabransky, Kenton, O.	5

Previously reported	\$662
	35,348
Total	\$36,010

Joint Publicity Committees

Pursuant to a call by President Ammann, a joint meeting of the Publicity Finance Committee and the Publicity Committee was held at the Hotel Sinton, Cincinnati, O., on Thursday, May 1st, at which the following were present: President, J. F. Ammann, ex-officio, member of both Committees, Publicity Committee; Henry Penn, Boston, chairman; Thos. H. Joy, Nashville, Tenn; and Guy W. French, Morton Grove, Ill. Publicity Finance Committee: George Asmus, Chicago, chairman; Herman P. Knoble, Cleveland, O. and Secretary John Young, New York. There was also present, Director Charles E. Critchell, Cincinnati, Director Joseph H. Hill, Richmond, Ind., J. A. Peterson, Cincinnati, and Major P. F. O'Keefe, Boston, Mass.

The meeting then proceeded to discuss a suggestion emanating from Major O'Keefe, that in order to intensify the work of collection of funds, four representatives of the Society be empowered to start out in different sections of the country to work on lines such as followed by the Secretary on his recent trips. This plan appealed to the meeting for the reason that if successfully carried out the 1919 Fund would be completed, and any other plan formulated could, if found acceptable, be put in operation for another campaign. Mr. Asmus was particularly earnest in his support of this plan, which, he said, he had anticipated to an extent sufficient to warrant him, as chairman of the Publicity Finance Committee, to enlist the services of two capable representatives for this very purpose.

Later in the afternoon, the two committees having ended their deliberations, the meeting proceeded as a whole. The meeting adopted the plan covering the sending out of representatives and made provision for the necessary expense. The details in regard to this work were placed in the hands of the chairman of the two committees, Messrs. Asmus and Penn, in connection with the President and Secretary.

The meeting then took up the matter of a continuance of the magazine advertising, and an appropriation was voted to cover a series of advertisements in the magazines to keep the slogan "Say it with Flowers" constantly before the public during the Summer months.

JOHN YOUNG, Sec.

1170 Broadway, New York.
May 10, 1919.

THE GARDENERS' SECTION

CHANGES AMONG THE GARDENERS.

Walter Cann, who has been foreman of Robert Cluett's greenhouses in Dalton, Mass., has taken a similar position at Aylen Windew, the estate of Charles Larrier, the New York banker, at Lenox.

Wm. J. Devery has become head gardener on the estate of H. G. Lapham, Chestnut Hill, Mass.

Ernest Robinson, formerly head gardener at Bronford Farms, Croton, Conn., is now superintendent on the estate of Mrs. Bradley Martin of Westbury, N. Y.

Robert Spiers, who has been in charge of the Crane estate at Dalton, Mass., has gone to the Luckenbacher estate at Port Washington, N. Y.

GROWING ASPARAGUS.

Andrew K. Rogers Tells of His Successful Method.

In the opinion of the writer wherever possible the grower should raise his own stock, as by doing so there is less check to the plants.

In planting a bed a few years ago which has been very satisfactory, I sowed the seed about the middle of December under glass giving them a night temperature of 65 degrees. After they were large enough I potted them into 2½-inch pots, growing them in the same temperature. After they were well rooted shifted them into 4-inch pots about the end of March, leaving them in the same house for about 10 days until they got a hold of fresh loam, after that moving them to a lower temperature of about night 48 degrees until the beginning of May, when they were put in cold frames where I gradually hardened them off, planting them about the 25th of May. These plants never were checked and moved right along. The asparagus by the fall was five feet tall and nice stocky plants.

The bed was specially prepared, being trenched three feet deep and the gravel subsoil all taken out, its place being taken partly by humus in the shape of decayed vegetable matter and black peat that had been piled for a year, along with a liberal dressing of barnyard manure and bone meal well

worked together. No drainage was necessary as it was a gravelly subsoil. My aim in using black peat is to hold the moisture. These plants were set three feet between rows 18 inches between plants set in open furrows about six inches below the surface.

The following year being short of asparagus and having quite a large bed, I marked off about one-third and cut fair asparagus all that season, and from what I can see it never harmed that part of the bed.

This method, in my estimation, is far better than planting two or three-year-old crowns, and will yield you asparagus much quicker; that being my experience. ANDREW K. ROGERS.

TYING UP PLANTS.

Some pertinent suggestions about the tying up of plants are made by Montague Free, writing in the New York Sun. Mr. Free says:

Much credit could be written with reference to the proper way of giving support to plants that need assistance to maintain themselves in a state of uprightness and integrity. In some gardens that are fully exposed to strong winds the taller plants are almost sure to be toppled over unless they are helped in some way. Far too often the remedy applied instead of improving matters does exactly the opposite. A group of shoots constricted in the middle by a string passed around them and fastened to a broomstick stuck in at one side does not present a picture that will satisfy any one having even the rudiments of artistic taste. Better far to let the plants blow over—they will at least look natural. The point to remember when staking and tying plants is that they must always be supported in such a way that the supports are as inconspicuous as possible and in such a manner that the beholder scarcely realizes that they are dependent on artificial means for their upstanding condition. Much can be done in this direction by placing iron hoops, supported on three or four legs, over the plants before they are fully grown. The subsequent growth of the plants almost entirely covers their supports. This method is very successful with plants that grow in clumps, such as peonies and delphiniums.

WHERE YOUR QUESTIONS ARE ANSWERED.

I have a bank on which daffodills are planted and have much trouble with wire worms. Can you suggest a remedy? I do not want to disturb the bulbs if I can avoid it.

Probably there is no reason why a well-known English plan should not prove satisfactory here. This is to bury pieces of cut potato tubers at intervals in the earth. These moist potatoes will attract the wire worms, and if the pieces are dug up about once a week, and the worms attached destroyed, the bed will gradually be freed from these pests.

Every year I have no end of trouble with onion maggots. Has anybody found a real remedy? H. L. P.

According to the Cumberland, N. J., News Letter, the insect can be controlled if a poison bait is used to kill the fly which lays the eggs. The bait recommended is made by using one ounce of sodium arsenate dissolved in one gallon of boiling water, with a quart of molasses and a handful of finely chopped onions. Three methods of application have been tried with good success. One is to go over the field as soon after planting as the fly appears, the material being distributed with a whisk broom in the form of coarse drops over the surface. The work must be repeated every three or four days. The second method is to use stalks of leeks or bunch onions as a container for the poison bait. The stalks are cut in two to four inch lengths and immersed in the liquid. They are then distributed in handfulls a few feet apart over the field, a shingle or a piece of board being used to keep them from drying up. The third method is to use clam shells or tins as containers. You are advised to at least give this plan a trial.

Have you any recommendations about protecting cherry trees from birds?

We doubt if we can offer anything very new in the way of suggestions. Small trees, of course, can be covered with netting. Some growers are advocating training the trees vase-shape so as to make this possible. The planting of white mulberries in the vicinity of the cherry trees gives excel-

lent results, the birds preferring the mulberries to the cherries. One simple method which seems to give very good results in the case of robins is to throw clods of earth into the trees among them. This proceeding seems to frighten the birds even more than buckshot. If you discover any infallible remedy we should be very glad indeed if you would tell us about it.

NEW ENGLAND NOTES.

A new greenhouse, 50x25 feet, is being erected at A. Barton Hepburn's summer residence at Ridgefield, Mass.

The North Shore Horticultural Society will hold two shows this year, a rose exhibition June 25, and the annual flower show Aug. 6 and 7.

Professor Henry A. Perkins has been re-elected to membership and chosen president of the Park Board of Hartford, Conn. His term of office is for 10 years.

T. Lee Roberts has given a greenhouse to Ascension Farm School, at South Lee, as a memorial to his son, the late Lieut. Ivan Roberts of the 27th Aero Squadron. Lieut. Roberts was connected with the school for several years before he entered the service.

GOOD TREE LABELS.

Prof. M. G. Kains, whose book on plant propagation has proved popular with readers of HORTICULTURE, has been telling readers of the New York Sun about his experiences with tree labels in the following words:

Tree labels in considerable variety have been tried by the public and found wanting. Scarcely any have proved durable, economical, easy to attach and harmless to the trees. Ordinary wooden ones rapidly turn gray and the writing upon them becomes illegible. Thin sheet copper ones, so often recommended to be written upon by a style or sharp point, by no means make good the claim that they are indestructible, for often after only one year's exposure they will leave nothing but the eyelet to tell where they once were. Zinc strips are no less disappointing, for they do not long retain the pencil marks; but worse, when any of the copper sulphate compounds as used in spraying with Bordeaux mixture, ammoniacal copper carbonate, etc., come in contact with the zinc, a chemical action takes place and the zinc literally melts away into thin air. Corked glass phials containing tree names and hung in the trees are fairly satisfactory except for the facts that they are hard to see and are too easily broken.

Fertilizers for Florists' Use

(Look at Analysis guarantee when buying and using fertilizers)

AM. Means Nitrogen expressed in the form of Ammonia.

A. P. A. Is available Phosphoric Acid.

B. P. L. Is Phosphoric Acid and Lime in combination, about 40% of the B.P.L. consist of Phosphoric Acid, about one-third of which is available to the roots of plants.

SHEEP MANURE UNLEACHED: Am. $1\frac{1}{2}\%$, A. P. A. 1%, Pot. $2\frac{1}{2}\%$. (From Covered Pens.)

The best top dressing for Carnations—100 lb. bag, \$3.00; 200 lbs., \$6.00; 500 lbs., \$13.00; Ton, \$50.00.

BLOOD DRIED GROUND: Am. 16%.

Fine for Palms and Ferns—100 lb. bag, \$10.00; 200 lbs., \$18.00;

TANKAGE HIGH GRADE: Am. 9%, B. P. L. 15%.

A lasting stimulant for Roses—100 lb. bag, \$6.50; 200 lbs., \$12.00, Ton, \$100.00.

TANKAGE REGULAR GRADE: Am. 6%, B. P. L. 30%.

100 lb. bag, \$5.50; 200 lbs., 10.00; Ton, \$75.00.

BONE MEAL: Am. 4%, B. P. L. 45%.

Rose Growers and for composting—100 lbs., \$4.35; 200 lbs., \$8.50; Ton, \$68.00.

BONE MEAL: Am. 3%, B. P. L. 50%.

For general use and for composting—100 lbs., \$4.00; 200 lbs., \$7.75; Ton, \$55.00.

NITRATE OF SODA: (Chili Saltpetre) Am. 18%.

25 lbs., \$2.25; 100 lbs., \$7.50; 200 lbs., \$14.50.

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The label that I have found most satisfactory in all respects is made from nurserymen's six inch wooden labels and stout wire, say number 11 or 12. Holes are bored with a gimlet near the pointed end so as to leave the blunt end for writing. The names of the varieties are written as large as possible with a soft, rather blunt lead pencil so as to make a broad, clear mark. Then a wire previously bent at its end to form a hook is slipped through the gimlet hole and with the pliers locked around itself by the hook. These labels are then dipped in a thin paint made of pure linseed oil and white lead and hung up. They must not be painted with a brush, because this would blur the writing. After dipping, the writing will appear very faintly, but soon the excess paint will drip off and leave the clear words seen through the paint. The linseed oil would serve the same purpose of making the writing indelible, but the labels would then not be as conspicuous as when colored white.

After drying, the wires, which should be 16 to 18 inches long, may be attached to the trees by bending them around the limbs with the pliers

locking their free ends. If thought more convenient the painting may be done after the labels have been hung in the trees, the paint being carried from tree to tree in a pail in which they are immersed.

The wires are too stout to have their ends bent with the fingers, therefore their non-removal is insured. The loops should be so large that there will be no danger of injuring the limbs upon which they hang. The cost of making is trifling, the writing indelible, the label conspicuous and very durable. What more satisfactory label can there be?

MASSACHUSETTS.

Frank Edwin Smith, formerly of the North Salem greenhouses, has purchased the Julyn greenhouse on Bridge street and will conduct a business at that location in the near future.

VISITORS' REGISTER.

Philadelphia—John Walker, Youngstown, O.; H. J. Hayman, Clarksburg, W. Va.; Simon Groot, Sluis & Groot, Enkhuizen, Holland.

RAMBLING OBSERVATIONS OF A ROVING GARDENER

I wonder what the results are going to be in Minnesota where the planting of fruit trees along the roadways is being undertaken. It seems that many of the people in the small towns consider that fruit trees are just as handsome as the trees which are usually planted for ornamental purposes and that they will pay dividends in crops as well as in beauty. In one or two towns there are streets even now which are lined with apple trees and where the spring display is one not easily duplicated, suggesting the flowering of the cherries along the roadside in Japan. The question is: "Will the small boys of the towns allow the fruit to ripen?" Apparently there have been no drawbacks to the plan up to date, as it is being extended. Whether it can be practiced in the east is an open question. Certainly the smaller towns could be made exceedingly picturesque by the use of fruit trees along the roadside.

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After all, though, it is quite possible that some of the mischief which is commonly ascribed to young America might more properly be placed on the shoulders of automobile parties. It is a regrettable fact that many motorists from the cities seem to lay off the restraints of civilization and become wholly lawless when they get into the open country. They repeatedly make raids, even on fenced orchards, and have no compunctions about stripping lilacs of their flowers, or even more delicate plants. On one estate in a suburb of Boston this very spring the early flowering magnolia blooms were ruthlessly pulled off the plants by a party, or more properly a gang of automobile roisterers.

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It is interesting to learn that there is an increasing demand for bees to be given a place on large estates. Perhaps it should be said, in all truth, that the superintendent or gardener is often less interested in the subject of bee keeping than the owner, for it introduces a line of work with which he is not familiar, and which does not seem very inviting. After all, though, the handling of bees is not such a serious matter as many people suppose it to be, and bees should be found on every country place.

Traveling about from one garden to another one sees fewer good Veronicas than might be expected. The Veronica

is one of the finest of the blue plants, if an improved kind is used. Veronica subsessilis is almost indispensable for a blue flower in the fall. A variety called Blue Ridge, which is being distributed from Vermont, seems to be even better than the forms usually seen.

Another good new plant which is being distributed by the same nurseryman, although it originated in Maine, is *Campanula punctata* var. *Marian Gehring*, which was grown in the writer's garden last year, and gave much pleasure. This new perennial Canterbury bell originated in the garden of Dr. J. C. Gehring, of Bethel, Maine, where it was found growing near a colony of *Campanula punctata* and probably is a cross with *Campanula medium*. At any rate it is a fine, strong growing plant, soon forming clumps two feet in diameter. The color is a peculiar pale lavender, and the flowering season lasts for a month or more. It is a plant which must be used with certain discretion in order to have proper color combinations, but it certainly is a decided acquisition to American gardens.

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Speaking of color harmonies, it may be observed that this is one of the least understood features of garden making, except in the hands of professionals with more than usual skill. Much that has been written about color combination in the garden is too idealistic to be of any practical value. It is impossible to lay out a garden with flowers in the same definite way that one can lay on colors when painting. Still there are plenty of opportunities for good effects, and there are certain mistakes which can be readily avoided. As has been pointed out by another writer, a crimson rose in front of a young copper beech tree creates discord, while the same kind of a rose near a silver maple results in perfect harmony. One might think in reading some of the books that the only place to use madonna lilies was in a bed of larkspurs, but as a matter of fact they are just as handsome when grown under or near an arch of climbing crimson roses. Red is a color which has to be used with greatest care because of the peculiar shades produced by different flowers. Scarlet Oriental poppies have been seen blooming close to crimson roses, and the effect has been anything but pleasing.

I have been surprised that so little use of Montbretias has been made on large estates, or for that matter in small gardens. Although a single spike is insignificant enough, a large group produces splendid effects, and they come in the fall when they are especially appreciated. A landscape gardener in Newton has used them very freely in a hardy border and says that they have been the most satisfactory of all his late summer flowers. Oftentimes they can be used very successfully in connection with fall asters. In any event, they are well worth more attention than has been given them.

NEW CHINESE PEAR TREE

Among the pear trees raised from seeds collected by Wilson in western China *Pyrus Calleryana* has created the most interest among American pomologists who now believe that they have it in a stock on which to graft the garden pears more resistant to blight than any that has yet been tried; and the seeds now produced in large quantities by the trees in the Arboretum are sought by the Department of Agriculture of the United States and by nurserymen who are anxious to provide the country with a possible remedy for the disease which has destroyed many American pear orchards.

The new Chinese pears have grown even more rapidly than the Chinese cherries, and among them are beautiful clean-stemmed specimens from 17 to 20 feet high, only 12 years old from the seed, and now giving every promise of reaching the height of 50 feet which these trees often attain on their native mountain sides. *P. Calleryana* is a shapely pyramidal tree more compact in habit than the other Chinese species. The flowers are smaller, and the globose brown fruit is hardly more than a third of an inch in diameter. To students of cultivated fruits *Pyrus serotina*, another of Wilson's introductions, is of particular interest, for this tree of the mountain forests of western China is now believed to be the original of the brown or yellowish, round, hard and gritty Sand Pears which in many varieties the Japanese have cultivated from time immemorial and which must have been introduced into Japan probably by the way of Korea.

In the early days of western intercourse with Japan many varieties of the Sand Pear were brought to the United States and Europe, but except for the beauty of their flowers and fruits they have proved to be of little value, for the fruit is so hard and so

full of grit that it is not even worth cooking. It was probably forms of the Sand Pear crossed with one of the cultivated garden pears which produced the Leconte and Keiffer pears from which much was at one time expected in this country, especially in the southern states, but which have proved so susceptible to blight that the cultivation of these trees has been now largely abandoned. The flowers of *Pyrus serotina* are larger than those of *P. Calleryana*, but there is little beauty in their small brown fruit; and the habit of the tree with its long spreading branches forming an open irregular head is not particularly attractive.

Of better habit is *Pyrus serrulata*, a fast-growing tree with large flowers which have been only sparingly produced in the Arboretum. The Chinese form of *Pyrus pashia* raised from Wilson's seeds is also established in the Arboretum where it is now flowering. The Himalayan form of this tree was first sent to Europe in 1825, but has not been tried in the Arboretum where it would probably not be hardy. In addition to the four pear trees from western China there are five other Chinese species established here, *P. ussuriensis*, the only pear tree of Korea and Manchuria, and extending into northern China and into Japan; *P. Bretschneideri*, a northern tree with juicy yellow fruit of good flavor; *P. oboidea*, another northern species with yellow fruit tapering from a broad base to a narrow apex, and *P. betulacifolia* and *P. phaeocarpa*, species with small brown fruit, that of the latter globose on some individuals and pyriform on others. Taken as a whole the Chinese pear trees make one of the interesting groups in the Arboretum, and as early spring flowering trees they take rank with the crabapples, although the open flowers, which are often tinged with pink while in the bud, are white and so lack the variety of colors which add so much beauty to the flower buds and flowers of the Asiatic crabapples.

AMERICAN ROSE SOCIETY.

A general meeting of the American Rose Society will be held at the rose gardens of Capt. George C. Thomas, Jr., Sunset avenue, Chestnut Hill, Philadelphia, at 2 p. m., June 4th. Matters of general interest to the society and a further enlargement of the program laid down at the annual meeting held recently in New York City will be the special program for this meeting and several important developments are expected. Take Pennsylvania R. R. to Chestnut Hill Station thence about one-half mile—lots of conveyances.

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here given will be promptly and prop-
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Albany, N. Y.—The Rosery, 23 Steuben St.
Albany, N. Y.—Danker.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont St.

Brooklyn, N. Y.—Wilson, 3-5 Greene Ave.

Buffalo, N. Y.—S. A. Anderson, 440 Main St.

Buffalo, N. Y.—Palmer's, 304 Main St.

Cambridge, Mass.—John McKenzie, 1927
Mass. Ave.

Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th
St.

Cleveland, O.—The Smith & Feters Co.,
735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643
Broadway.

Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.

East Orange, N. J.—Smith, The Florist.

Fall River, Mass.—Warburton, 496 New
Boston Rd. and 36 N. Main St.

Fishkill, N. Y.—Weed Bros.

Kansas City, Mo.—Samuel Murray, 1917
Grand Ave.

New York—David Clarke's Sons, 2138-
2141 Broadway.

New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.

New York—Dards, N. E. corner 44th St.
and Madison Ave.

New York—G. E. M. Stumpp, 761 Fifth
Ave.

New York—Kottmiller, 426 Madison Ave.
and 49th St., also Vanderbilt Hotel.

Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.

Philadelphia—F. M. Ross, 136 So. 52nd
St., 13 So. 60th St., 212 E. Girard Ave.

Philadelphia—Chas. H. Grakelow, Broad
St. at Cumberland.

Providence, R. I.—Johnston Bros., 33
Dorrance St.

Rochester, N. Y.—J. B. Keller Sons, 26
Clinton Ave. N.

St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.

St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.

Worcester, Mass.—Randall's Flower Shop,
22 Pearl St.

New York—Thos. F. Galvin, Fifth Ave.,
at 46th St.

ST. LOUIS, MO.

FRED C. WEBER

4326-28 Olive St.

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NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of

TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

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8-10 West Adelaide St. - TORONTO, ONT.

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FLORISTS

Telephones 1501 and L 1533

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Efficient Delivery Service

ALL BOSTON SUBURBS

JOHN MCKENZIE

1927 Mass. Ave., CAMBRIDGE, MASS.

PHILADELPHIA

CHAS. H. GRAKELOW F.T.D.

Everything in Flowers

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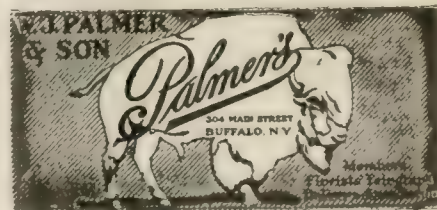
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B. E. GILLIS, President.

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DENVER, COLORADO



RUSSELL OPHELIA COLUMBIA HADLEY

Four of the best varieties and we have them in quantity of an unusual fine quality.

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1201 Race Street, PHILADELPHIA, PA.

Get Bigger and Better Mail Returns From Your NURSERY CATALOGS

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CAMPBELL-JOHNSON PRINTING CO.

Tenth and Walnut Streets - DES MOINES, IOWA
PRINTERS TO THE NURSERYMEN OF AMERICA

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$0.25 50,000...\$0.75 Sample free.
For sale by dealers.

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WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

E. G. HILL CO.

Wholesale Florists

RIEHOOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

The House for Quality and Service

ZECH & MANN

We are Wholesale Florists Doing
a Strictly Wholesale Business

30 East Randolph Street, CHICAGO

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

IF You Want Anything from Boston Get It From Henry M. Robinson & Co.

For Safety Place Your Orders With Us

HENRY M. ROBINSON & CO.

2 Winthrop Square and 32 Otis Street, BOSTON, MASS.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON May 14		ST. LOUIS May 12		PHILA. May 12	
Roses						
Am Beauty, Special.....	25.00	to 50.00	50.00	to 60.00	50.00	to 75.00
“ “ Fancy and Extra.....	12.00	to 20.00	25.00	to 40.00	30.00	to 40.00
“ “ No. 1 and culls.....	2.00	to 4.00	5.00	to 15.00	8.00	to 20.00
Russell, Hadley.....	12.00	to 15.00	15.00	to 40.00	6.00	to 30.00
Killarney, Ward.....	2.00	to 8.00	6.00	to 12.00	3.00	to 8.00
Radiance, Taft, Key.....	2.00	to 8.00	3.00	to 8.00	.....	to
Ophelia, Sunburst.....	4.00	to 12.00	6.00	to 12.00	3.00	to 10.00
Carnations	12.00	to 15.00	8.00	to 12.00	4.00	to 6.00
Cattleyas.....	100.00	to 150.00	50.00	to 75.00	60.00	to 75.00
Lilies, Longiflorum.....	20.00	to 25.00	20.00	to 25.00	15.00	to 20.00
Lilies, Speciosum.....	8.00	to 20.00	.....	to .....	.....	to
Callas.....	20.00	to 25.00	15.00	to 20.00	12.00	to 20.00
Iris.....	8.00	to 10.00	15.00	to 25.00	.....	to
Lily of the Valley.....	8.00	to 10.00	6.00	to 8.00	8.00	to 10.00
Snapdragon.....	8.00	to 20.00	4.00	to 5.00	8.00	to 15.00
Pansies.....	1.00	to 2.00	.....	to	5.00	to 6.00
Daffodils.....	6.00	to 8.00	5.00	to 6.00	.....	to
Calendula.....	2.00	to 4.00	2.00	to 5.00	3.00	to 4.00
Stocks.....	.....	to	5.00	to 8.00	6.00	to 8.00
Wallflowers.....	.....	to .....	.....	to .....	.....	to
Mignonette.....	2.00	to 6.00	3.00	to 4.00	4.00	to 5.00
Sweet Peas.....	1.00	to 3.00	.50	to 1.00	.50	to 2.00
Violets.....	.75	to 1.00	.15	to 1.00	.....	to
Marguerites.....	3.00	to 5.00	1.50	to 2.00	.50	to .75
Gardenias.....	25.00	to 35.00	.....	to	30.00	to 40.00
Adiantum.....	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50
Gladioli.....	16.00	to 25.00	12.50	to 40.00	10.00	to 12.00
Asparagus Plumosus, & Sprea. (100 Bchs.).....	35.00	to 50.00	35.00	to 100.00	50.00	to 60.00

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

Wholesale Growers of Cut Flowers

ROSES, CARNATIONS

AND ALL OTHER SEASONABLE STOCK

Shipping orders have most careful attention always

WILLIAM F. KASTING Co.

Wholesale Florists

568-570 WASHINGTON STREET - BUFFALO, N. Y.



WEED KILLER

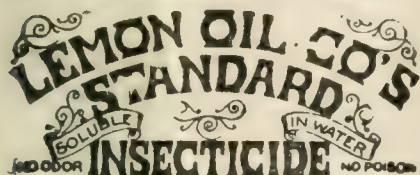
THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS, TENNIS COURTS, DRIVEWAYS, ETC.

This fluid destroys weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

PINO-LYPTOL CHEMICAL CO., 507-509 W. 19th St., New York

CORRESPONDENCE SOLICITED.



Save your plants and trees. Just the thing for greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrips, Red Spider, Black and Green Fly, Mites, Ants, etc., without injury to plants and without odor. Used according to direction, our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

½ Pint, 80c.; Pint, 50c.; Quart, 90c.; ½ Gallon, \$1.50; Gallon, \$2.50; 5 Gallon Can, \$10.90; 10 Gallon Can, \$20.00. Directions on package.

LEMON OIL COMPANY

Dept. S. 428 W. Lexington St., Baltimore, Md.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI May 12		CHICAGO May 12		BUFFALO May 12		PITTSBURG May 12	
Roses								
Am. Beauty, Special.....	50.00	to 60.00	60.00	to 75.00	40.00	to 60.00	62.50	to 75.00
" " Fancy and Extra.....	30.00	to 40.00	30.00	to 50.00	30.00	to 40.00	42.50	to 50.00
" " No. 1 and culls.....	12.00	to 25.00	12.00	to 20.00	3.00	to 15.00	6.00	to 25.00
Russell, Hadley.....	10.00	to 25.00	6.00	to 25.00	12.00	to 20.00	12.50	to 17.00
Killarney, Ward.....	8.00	to 15.00	6.00	to 12.00	4.00	to 12.00	8.00	to 15.00
Radiance, Taft, Key.....	10.00	to 25.00	5.00	to 25.00	4.00	to 12.00	6.00	to 15.00
Ophelia, Sunburst.....	8.00	to 20.00	6.00	to 15.00	4.00	to 15.00	10.00	to 20.00
Carnations	6.00	to 8.00	5.00	to 10.00	4.00	to 7.00	8.00	to 10.00
Cattleyas.....	75.00	to 100.00	60.00	to 90.00	75.00	to 85.00	100.00	to 125.00
Lilies, Longiflorum.....	20.00	to 25.00	10.00	to 15.00	15.00	to 20.00	20.00	to 25.00
Lilies, Speciosum.....	.....	.....	.....	.....	8.00	to 10.00	.....	.....
Callas.....	15.00	to 20.00	6.00	to 15.00	15.00	to 25.00	20.00	to 25.00
Iris.....	6.00	to 8.00	2.00	to 4.00	8.00	to 10.00	10.00	to 12.00
Lily of the Valley.....	6.00	to 8.00	3.00	to 6.00	8.00	to 10.00	10.00	to 12.00
Snopdragon.....	6.00	to 15.00	8.00	to 15.00	6.00	to 15.00	15.00	to 25.00
Pansies.....	1.00	to 1.50	1.00	to 1.50	.50	to 1.00	4.00	to 6.00
Daffodils.....	2.00	to 4.00	3.00	to 6.00	2.00	to 3.00	2.00	to 4.00
Calendula.....	2.00	to 3.00	3.00	to 4.00	2.00	to 3.00	3.50	to 5.00
Stocks.....	6.00	to 8.00	6.00	to 12.00	3.00	to 6.00	.....	.....
Wallflowers.....	.....	.....	1.00	to 2.00	.....	.....	.....	.....
Mignonette.....	.....	.....	4.00	to 8.00	3.00	to 5.00	3.00	to 4.00
Sweet Peas.....	1.50	to 3.00	1.00	to 3.00	.75	to 2.00	1.00	to 2.00
Violets.....	.....	.....	1.00	to 2.00	1.00	to 1.50	.75	to 1.00
Marguerites.....	2.00	to 3.00	.75	to 1.50	1.00	to 1.50	2.00	to 4.00
Gardenias.....	.....	.....	25.00	to 30.00	20.00	to 25.00	.....	.....
Adiantum.....	.....	.....	1.00	to 1.25	1.00	to 1.00	1.50	to 2.00
Gladioli.....	15.00	to 20.00	5.00	to 8.00	.....	.....	.....	.....
Asparagus Plu. & Spreng. (100 Bhs.)	25.00	to 50.00	50.00	to 100.00	35.00	to 50.00	60.00	to 75.00

THE MAYFLOWER.

The Christian Science Monitor of Boston prints the following letter:

With a twinge of jealousy for my darling flower, trailing arbutus, better known on Cape Cod as the Mayflower, I notice in your article, "A Stir About Plants" (April 8), that "several acres on Cape Cod are being given over to the raising of a Chinese lily."

A Chinese lily may be very beautiful, but can it equal one of Cape Cod's native flowers? — the one above mentioned.

It is a mournful fact that unless some power restrains the vandal hand of commercialism, trailing arbutus will ere long be as dead as the rocks.

I first came to Denver 20 years ago; and for several years thereafter an annual reminder of my old New England home came to me — a box of trailing arbutus. One year I received three. But for a number of years past none has come. My friends write me that the places where it grew have been ransacked and the plants have been pulled up by the roots, so that now it is impossible to get any within reasonable distance.

DOLANSKY-McDONALD CO.

Wholesale Florists

5 Winthrop Square

BOSTON, MASS.

Telephones, Fort Hill 3630 and 3631

New England Florist Supply Co.

276 Devonshire Street

BOSTON, MASS.

Telephones: Fort Hill 3469 and 3135.

Open 6 a. m. to 7 p. m.

FREE MEMORIAL SPECIAL

With each 1,000 gold letters at prices quoted below, we will give

FREE—1 36-COMPARTMENT BOX— VALUE \$1.00

Sizes No. 1, \$5.00 per 1000

Size No. 4, \$4.50 per 1000

ANITA SPECIALTY CO.

Paper Specialties 77 SUMMER STREET
P. O. Box 2376 BOSTON, MASS.

Two or three years ago, as I boarded a street car, I caught the unmistakable perfume of the sweetest flower in the world, and on locating its source found a friend of mine wearing a tiny bunch in her button-hole. "Where did you get it?" I eagerly inquired, and she told me she had bought it on a street in Boston;

that everywhere it was being offered for sale by those who had gone far, far into the haunts and were getting 10 cents for just a few sprigs of the flowers that I could gather by the basketful when I was a child, after a 10 minutes' walk from my home.

CELIA BALDWIN WHITEHEAD.
Denver, Colo.

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK
Telephones: 2200, 2201, Madison Square.

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5335, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

JOHN YOUNG & CO.

WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone Farragut 4326

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephones—4541-4542 Madison Square

RIEDEL & MEYER, Inc.

Wholesale Commission
READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE 608 FARRAGUT NEW YORK

THE KERVAN CO

Fresh Cut Decorative Evergreens.

Highest Standard of Quality. Largest
Stock in America. Write for Illustrated
Catalog of Greens and Florists' Supplies
119 W. 28th St., - NEW YORK

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS

28 Willoughby St., Brooklyn, N. Y.

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 3370 Farragut.

**J. K. ALLEN**

"A LEADER IN THE WHOLESALE COMMISSION TRADE FOR OVER THIRTY YEARS"
ROSES! I WANT ROSES!

Have a demand for more than I can supply. Rose Growers Call or Write.

118 West 28th St. **NEW YORK** **TELEPHONES**
Farragut 167 and 2060

J. J. COAN, Inc. Wholesale Florist

116 West 28th Street, NEW YORK

Phones: **Everything in Cut Flowers**
Farragut 5413 and 5891

HENRY M. ROBINSON CO. OF NEW YORK
WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 12-8510 Madison Square

Consignments Solicited

MAURICE L. GLASS, Treasurer

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Part of Week ending May 10 1919		First Part of Week beginning May 12 1919	
American Beauty, Special	20.00	to 30.00	20.00	to 35.00
" " Fancy and Extra	5.00	to 15.00	10.00	to 20.00
" " No. 1 and culls	2.00	to 5.00	2.00	to 10.00
Russell, Hadley	2.00	to 25.00	2.00	to 25.00
Killarney, Ward	2.00	to 5.00	2.00	to 5.00
Radiance, Taft, Key	2.00	to 25.00	2.00	to 25.00
Ophelia, Sunburst	2.00	to 6.00	2.00	to 6.00
Carnations	4.00	to 10.00	3.00	to 8.00
Cattleyas	20.00	to 75.00	20.00	to 60.00

WE WANT MORE SHIPPERS

We have a numerous clientele of New York City buyers and the demand exceeds our supply. This is especially true of Roses. We have every facility and abundant means and best returns are assured for stock consigned to us.

Address Your Shipments to

UNITED CUT FLOWER CO. Inc.

111 W. 28th St., NEW YORK

D. J. Pappas, Pres.

REED & KELLER

122 West 25th St., New York

Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Boston Floral Supply Co.

347-357 Cambridge St., Boston
SHOW ROOMS, 15 Otis Street and

96 Arch Street

Headquarters for
CYCAS, BASKETS, WIRE DESIGNS
and WAX FLOWERS

HENTZ & NASH, Inc.

Wholesale Commission Florists

55 and 57 West 26th Street
Telephone No. 755 **NEW YORK**
Farragut

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting
especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
40 STATE STREET . . . BOSTON
Telephone Main 58

When writing Advertisers kindly mention Horticulture

Flower Market Reports

Growers are worrying a **BOSTON** little about the prospect of warm weather for

some days before Memorial Day. Dealers are too busy to worry about much of anything. The outlook continues as good as ever, with a scarcity in some lines. Carnations are short, but those coming in now are of good quality. Selling at 8 and 10. There is a fair crop of roses. As usual, two dealers are bringing American Beauties from New York. There is an abundance of stock and feverfew. A few glads are coming in, some very good spikes from Providence being noted. Doubtless the price of \$2 a dozen being asked will not long prevail. It is expected that some lilacs will be offered before Memorial Day. There seems to be no other possible cheap flower and the demand for lilacs is not what it used to be.

The weather was **PHILADELPHIA** a bad feature in the Mothers' Day week here. Up to Saturday things looked very good but the severe storm of that day put everything on the blink and there was a good deal of miscellaneous stock left unsold. Carnations cleaned up pretty well. The out-of-town demand for these was very heavy. Roses were in big supply and while trading was brisk all the week the three or four extra shipments that came in from all the growers on Saturday in expectation of the extra demand met with a very flat reception.

The past week was an **CHICAGO** eventful one for the trade here and the satisfactory amount of business done by all branches has set a record which will be hard to reach in future years. The early part of the week found demand for stock to be good, the call continuing to grow stronger as the week advanced and shipping began for what has proved to many, to be the greatest florists' day of the year, Mothers' Day actually surpassed Easter this year in volume of business done, both in the wholesale and in the retail stores, the end only coming when the market was cleaned up. Some Saturday night shipments came in and wholesale stores opened on Sunday morning to give the retailers the opportunity of replenishing their stock for Sunday. A shipment of peonies mostly Victoria (white) came to Kennicott's from Villa Ridge, Ill., just in time for Moth-

NEW YORK QUOTATIONS PER 100. To Dealers Only

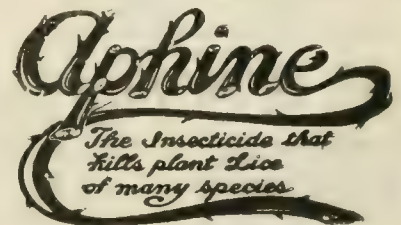
MISCELLANEOUS

	Last Part of Week ending May 10 1919	First Part of Week beginning May 12 1919
Lilies, Longiflorum.....	10.00 to 12.00	10.00 to 12.00
Lilies, Speciosum.....	..... to .....	..... to
Callas.....	8.00 to 12.00	8.00 to 12.00
Iris.....	4.00 to 8.00	3.00 to 5.00
Lily of the Valley.....	2.00 to 6.00	2.00 to 6.00
Snapdragon.....	1.00 to 6.00	2.00 to 6.00
Pansies.....	.75 to 1.00	.50 to 1.00
Daffodils.....	5.00 to 6.00	5.00 to 6.00
Calendula.....	1.00 to 3.00	2.00 to 3.00
Stocks.....	.200 to 8.00	2.00 to 8.00
Wallflowers.....	..... to	1.00 to 2.00
Mignonette.....	2.00 to 5.00	1.50 to 3.00
Sweet Peas.....	1.00 to 2.50	1.00 to 3.00
Violets.....	2.50 to 4.00	2.00 to 3.50
Marguerites.....	1.00 to 2.00	1.00 to 2.00
Gardenias.....	5.00 to 25.00	4.00 to 25.00
Adiantum.....	1.00 to 1.25	1.00 to 1.25
Gladioli.....	4.00 to 12.00	3.00 to 8.00
Asparagus Plumosus, & Spreng. (100 bunches).....	15.00 to 35.00	15.00 to 35.00

er's Day and were quickly picked up, bringing from 6 to 12c. From Monday on regular shipments are going into cold storage. The supply of roses included all the varieties in season, and while the cuts were large, everything sold, prices ranging all the way from the shortstemmed ones at 6c to the fancy stock at 50c., with American Beauty in demand at prices as high as the holder cared to ask. Carnations were scarce and sold up to 20c. for fancy. There was a pretty good supply of sweet peas that brought from \$1.50 to \$3.00 per 100. Other stock included lilies, callas, calendulas, cattleyas, daisies, pansies, lily of the valley, etc. The Monday after found the market bare and the incoming stock was mostly used up by noon.

Last week's business **CINCINNATI** for Mothers' Day was excellent and cleaned everything in the market. The retailers, too, cleaned up. Prices in some lines were extraordinarily high, even for that day; but in most lines, while they were stiff, still they were reasonable. The demand from out of town was very heavy. Roses are plentiful and receipts in this line include many excellent offerings. Carnations were very short the early part of this week but the latter part of the week should bring in heavy supplies in this line. Easter lilies are in a good supply. Rubrum lilies and callas may be had. Sweet peas continue to be plentiful. Peonies have made their appearance for the season and in a short time should be in a heavy supply. Iris have been finding a fair market. Gladioli are moving readily. Some excellent stocks are offered. Snapdragon are in a heavy supply and are almost glutting the market. Only a part of those that come into the market can be moved. The first Cape Jessamine

of the season, from the South, came into the wholesale houses last week. Other offerings are calendula, pansies and forget-me-not.



The Recognized Standard Insecticide.
A spray remedy for green, black, white fly, thrips and soft scale.
Quart, \$1.00; Gallon, \$2.50.

FUNGINE

For mildew, rust and other blights affecting flowers, fruits and vegetables.
Quart, \$1.00; Gallon, \$2.50.

VERMINE

For eel worms, angle worms and other worms working in the soil.
Quart, \$1.00; Gallon, \$2.50.
SOLD BY DEALERS.

Aphine Manufacturing Co.
MADISON, N. J.

USE WIZARD BRAND

TRADE MARK

CONCENTRATED PULVERIZED MANURE

Pulverized or Shredded
Cattle Manure
Pulverized
Sheep Manure

The Florists' standard of uniform high quality for over ten years. Specify: **WIZARD BRAND** in your supply house order, or write us direct for prices and freight rates.

THE PULVERIZED MANURE CO.
24 Union Stock Yard, Chicago

CAMBRIDGE

NEW YORK



World's Oldest and Largest
Manufacturers of

FLOWER POTS

WHY?

A. H. HEWS & CO., INC.

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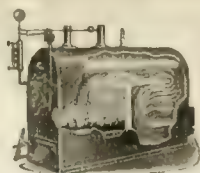
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HORTICULTURE

Vol. XXIX

MAY 24, 1919

No. 21

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BECKY McLANE

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LIST OF ADVERTISERS

	Page		Page		Page		Page		Page
Advance Co.....	507	Childs, John.....	490	Galvin, Thos. F.....	501	McCarthy & Co.....	485	Pierson, F. R.....	485
Alexander, J. K.....	488	Lewis.....	499	Gasser Co., J. M.....	501	N. F.....	499	Pulverized Ma-	
Allen, J. K.....	504	Clarke, D. Sons.....	500	Graham & Son,		McHutchison Co.....	487-488	nure Co.....	503
American Bulb		Coan, J. J.....	504	A.....	501				
Co.....	486	Cooke, Geo. H.....	500	Grakelow, Chas.		Marshall, W. E.		Randall Flower	
American Fores-		Conard & Jones.....	488	H.....	501	& Co.....	486	Shop.....	501
try Co.....	499	Cowee, W. J.....	502	Grey & Co., T. J.....	486	Michell, H. F. Co.....	497	Reed & Keller.....	504
Anderson, S. A.....	501	Craig Co., Robt.....	487	Gude Bros. Co.....	500	Michigan Cut		Reidel & Meyer.....	504
Aphine Mfg. Co.....	503	Campbell - John-				Flower Ex.....	502	Reid, Edw.....	502
		son Printing				Murray, Samuel.....	500	Reuter, L. J. Co.....	488
		Co.....	502					Rice & Co., Je-	
Barrows, H. H.....	488			Hart, Geo. B.....	502			rome B.....	486
Bay State Nur-				Heistad, H.....	487	New Eng. Flor-		Robinson, Henry	
series.....	487	Danker.....	500	Hess & Swoboda.....	501	ist Supply Co.....	502	M. Co.....	504
Bobbink & At-		Dards.....	500	Hews & Co., A.		New Eng. Nur-		Robinson, H. M.	
kins.....	487	Davey Tree Ex-		H.....	506	series.....	488	& Co.....	502
Roddington Co.,		pert Co.....	493	Hill Co., E. G.....	502	N. Y. Botanical		Roehrs, J. Co.....	488
Inc., A. T.....	497	Dolansky & Mc-		Hill, D. Nursery		Gardens.....	499	Roland, Thomas.....	501
Roigiano & Son.....	486	donald.....	504	Co.....	499			Ross, F. M.....	501
Boston Floral		Dreer, H. A.....	504-506	Howard, W. D.....	490	Nolan, T. J.....	500		
Supply Co.....	504	Dunlop, John H.....	501					Sheridan, W. F.....	504
Breck, J. & Sons.....	486	Dysart, R.....	488	Irwin, R. J.....	486	Old Town Nur-		Siebrecht, Geo. C.....	504
Breitmeiers, J.				Johnston Bros.....	500	series.....	488	Siggers & Sig-	
Sons.....	500	Edgar Co., W. W.....	496			Palmer, W. J. &		gers.....	507
Budlong, J. A.....	502	Edwards Folding		Kasting, F. F.		Son.....	501	Skidelsky, S. S.	
Bunyard, A. T.....	500	Box Co.....	502	Co.....	502	Park Floral Co.....	501	& Co.....	486
Burlington Wil-		Elm City Nur-		Kelway & Son.....	486	Parshelsky Bros.....	506	Smith, Elmer D.	
low Ware Co.....	500	series.....	488	Kervan Co.....	504	Penn the Florist.....	500	& Co.....	488
Burnett Bros.....	486			Knoble Bros.....	501	Pennock S. S.		Smith, W. & T.	
Burpee, W. A. &		Farguhar, R. &		Kroeschell Bros.....	507	Co.....	485	Nursery Co.....	499
Co.....	486	J. Co.....	486	Kuebler, W. H.....	504	Pino - Lyptol		Smith, The Flor-	
		Fengar, E. W.....	487	Kottmiller.....	500	Chemical Co.....	503	ist.....	500
Carter's Tested		Ford, M. C.....	504			Pierce Co., F. O.....	506	Smith & Fettes	
Seeds, Inc.....	486	Ford, W. P.....	504	Lemon Oil Co.....	503	Pierson, A. N.....	485	Co.....	501
		Proment, H. E.....	504	Liggit, C. U.....	487			S. A. F. & O. H.....	508

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**CHRYSANTHEMUM
SPECIALISTS**

ELMER D. SMITH & CO.

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HORTICULTURE

Vol. XXIX

MAY 24, 1919

No. 21

FLORISTS AND THEIR ACCOUNTS

It was not an unmixed blessing when the government compelled florists to make an accurate survey of their business in order to satisfy the income tax collector. This was the opinion of Mr. F. H. Palmer, a well known and successful florist and nurseryman, speaking at a meeting of the Boston Gardeners' and Florists' Club, Tuesday evening. Mr. Palmer then went on to discuss accounting methods adapted to the florists' business, using his own system as an illustration. He declared that there had always been too much secrecy and mystery about the business affairs of florists in general. Under the new conditions this was being broken down, which was a distinct gain. Mr. Palmer asserted that in the past the average florist had kept books in the most haphazard sort of way. If he had money in the bank at the end of the year, he figured that he had made a profit without considering what it was going to cost him to meet bills soon to be due and to restock.

"The constantly rising overhead costs," said Mr. Palmer, "have made the florists realize the need of revising their methods. If they lack adequate book keeping methods, they do not know how to readjust their work. Many a florist hesitates to raise his prices, no matter how much costs have advanced, perhaps because he does not analyze his affairs. A good accounting shows the tendency of the business and makes it possible for the owner to classify all the various items to serve as a basis for his future policy. This necessitates the persistent and careful writing down of each day's work. The machinery of book keeping is another story. That simply means having a good book keeper. However, I believe in calling in an expert accountant at periodical intervals to go over the business. This is a tremendous help. Accounting is a science in itself. You can never learn it all by experience. The services of a good accountant are worth all they cost.

"Our business is more complicated because we have three departments. They are divided as follows: Greenhouse and nursery, store, and outdoor work. Separate accounts are kept for each department, and nothing is transferred from one to the other without crediting and debiting, as with two distinct lines of business. Right here I want to say that it is most important to take a complete inventory when forming a partnership if there is stock on hand. Every item should be entered, and there should be papers to cover all agreements. An inventory, for that matter, should be made

at least twice a year regularly. This means a physical and actual examination of the stock. Florists have always disliked to do this, but there is no other way in which they can know where they stand.

"We have a purchase book divided into columns to cover all the common items, such as telephone and telegraph charges, automobile expenses, materials, advertising, etc. By this means we can analyze our purchasing accounts at any time. It is easy to carry this system to such a point that you can compare the cost of running one make of car with another and the wearing qualities of different tires. When the bills come in the office manager indicates by a brief notation with a red pencil which column it is to be entered under. The invoices are filed daily and not allowed to accumulate.

"We also have a sales book which is kept in much the same way. We use sale slips, of course, and at the end of each day these slips are clipped together with a piece of paper attached on which the totals have been recorded with an adding machine. The slips are then filed away but may be found almost instantly under any given date if it is desired to check up a past transaction. If a customer makes complaint, for example, the sale slip will show the date of the sale and the slips can then be brought out to furnish the additional information needed. On the sale slip department making the sale gets the credit. The orders which appear on the sale slips are entered in a shipping book bound like that used by express companies. This book is carried by the driver and a signature is required from every customer who receives a package. By this system we can instantly trace any sale from source to delivery, which prevents many a dispute and protects all parties involved.

"Finally we have a cash register from which nothing is paid out. The money received one day is deposited in the bank the next day. The daily deposits always tally with the previous day's receipts, one just checking the other. By this plan we know where we stand to a cent. A petty cash account is also carried in the office, and always contains ten dollars or its equivalent in slips. No amount larger than five dollars is ever paid out except by check. We send check for all our purchases by the tenth of each month, and have no trouble in getting credit. When our buyer goes to the market he doesn't have a dollar of the firm's money in his pocket except for breakfast.

"Finally a summary is made showing the gross profit per year from which are deducted all expenses, like salaries, rent, deliveries and repairs, with overhead items, even to postage. I have learned from the income tax officials that eight per cent is considered about the right margin of profit for florists, being told that that is the average in successful establishments."

HORTICULTURE

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Nearing a
crisis

There is no reason for not saying that the affairs of the Massachusetts Horticultural Society are fast reaching a crisis. The last exhibit was evidence enough of that fact. With not a single entry in the flower class, the question which naturally came into the minds of those interested was this: Have the head gardeners of estates around Boston deliberately determined to boycott these shows? On the heels of this question came another: If true what is the reason for such a movement? *HORTICULTURE* is not attempting to prejudge the case or even to offer undue criticism. It is an absolute fact, though, that the Massachusetts Horticultural Society is losing ground among flower lovers and the general public because of the paucity of exhibits at all the recent shows. Even now it is going to be difficult to get them to attend when a good show is given. It remains, therefore, for everybody who is interested in the Society's future well being to help heal the present situation. If the gardeners believe, as many of them do, that a great mistake was made in the failure of the society to offer anything like adequate prize money, they are perfectly justified in stating these objections and in an attempt to bring about different methods another year. It is due to them and due to the public that their side of the question be fully considered, not simply as a matter of opinion between two classes of members, but with a view to the best interests of the organization. On their part the gardeners should think twice before taking a step which will do the society irreparable harm. Although there are some dissenters, it seems to be a very general feeling that it would be better to have fewer shows with higher prize money and more entries than a series of small shows which are not shows at all in the true sense. It is quite probable that the lack of exhibits is due partly to war time conditions which have caused many greenhouses to be closed and curtailed the number of plants produced. These facts were known, though, when the year's schedule was made out, and if investigation showed then that there was material enough to warrant holding the exhibits announced, it is reasonable to believe that a creditable showing could be made. The time has come when some definite action is needed to bring about more harmonious relations, which can come only with a conciliatory attitude, and a generous willingness to set aside personal views.

In Memoriam of William J. Stewart

The pathetic poem written by the late William J. Stewart, founder and editor of *HORTICULTURE*, just before his death, has been copied by several papers and widely discussed. An answer in verse almost equally as good has been written by Mr. Winfred Rolker, in a letter to Mr. E. H. Wilson, by whose permission it is published herewith:

Au Revoir

Say not adieu, my friend, say au revoir!
 Inexorable fate decreed that man must part;
 Kind Providence sowed Hope into his heart
 To meet again beyond our humane sphere,
 Unfettered by mortal clay,
 Unhampered by distance:
 Under the spell of Truth Divine
 Drinking the beauties of God's universe.
 There we shall meet again and take reward;
 Our feeble human failings readily forgiven.
 There we shall meet again, my friend.
 Such is my creed: "In God we trust."
 My friend, I say, "Au revoir."

A Plea for Protection

In the last issue of *HORTICULTURE* is printed a letter taken from the Christian Science Monitor and written by a resident in Denver, Colorado, protesting against the destruction of the Mayflower or Trailing Arbutus. True horticulturists must heartily agree with the writer. It is a mournful fact that unless some power restrains the vandal hand, many of the treasures of the woods and of the countryside before long will be as extinct as the Dodo. The winsome Mayflower is only one—Kalmia, broadleaf Rhododendrons and Azaleas are others. The itinerant vendors and the street corner florists are no more to be blamed than their more flourishing competitors, the nurserymen, the nurserymen no more than the landscape architects, and the latter no more than those who control the educational systems of the country. All are blame-worthy, all are delinquent. Not equally perhaps and, of course, there are exceptions. How many Kalmia plants have been destroyed to supply "greens" for street decorations during recent parades? How many native Rhododendrons have been torn from their native homes to supply "carload lots" to gardens during the last decade? I wonder! Also, how much disappointment misguided owners of such gardens suffer? It may bring wealth to a few, it certainly brings poverty to the countryside. It is wrong, it is destructive and opposed to the true spirit of horticulture which is constructive. How long is this senseless demolition of the native vegetation to be allowed? When will the public at large grasp the fundamental fact that the natural resources—economic and aesthetic—of a country belong to its people, generation upon generation; that they are simply property in trust and as such in the present to be protected, properly used and handed on to posterity? Read Audubon's account of the "egggers" of Labrador, think of the Passenger Pigeon, of the Bison, of the forests of this country, and ask ourselves what future generations of nature lovers will think of the boasted civilization of the nineteenth and twentieth centuries that, in its mad greed for wealth, it should have so devastated a whole continent as not to leave room in it for the continued existence of many grand, unique and beautiful life-forms.

E. H. WILSON.

AZALEAS OF INTEREST TO NURSERYMEN

An azalea now blooming at the Arnold Arboretum is one of the most promising new plants which has been introduced for a long time. It comes from Korea and is known as *Rhododendron Schlippenbachii*. Because of its remarkable hardiness it can be planted anywhere in the United States with full confidence. Moreover, there is every reason to believe that it can be readily crossed with the tender greenhouse azaleas, so as to produce a new race of these plants for American gardens. Prof. Sargent thinks so well of it that he is planning to set out a thousand plants in the Arboretum. It will be in commerce within a few years, too, as many thousand seeds sent from Korea by Mr. Wilson when he was there last have been distributed, both in this country and abroad. About five years is required for the plants to reach flowering size. It is predicted that this azalea will presently become a well known and highly valued plant in the gardens of the United States, as well as those of Europe. Prof. Sargent says:

Rhododendron (Azalea) Schlippenbachii is a shrub which on the wind-swept, grass-covered cliffs of the Korean coast rises only a few inches above the surface of the ground, but in the forests of the north is a shrub twelve or fifteen high with a tall, stout stem. The leaves of this Azalea are clustered at the ends of the branches, and are broadest at the apex; they are larger than those of most Azaleas, becoming sometimes three inches long and an inch or an inch and a half wide. The flowers, which appear before the leaves, are in clusters, pale pink with dark spots at the base of the upper three lobes of the corolla, and three inches in diameter. There can be little doubt of the hardiness of this Azalea; in northern Korea it grows to its largest size where the thermometer falls to 30 degrees below zero Fahrenheit and a freezing temperature is not uncommon in August. In the Arboretum the flower-buds were not injured by the cold winter of 1917-18 on plants growing in an exposed position.

Although known to Russian botanists as long ago as

1870 this plant does not appear to have attracted the attention of western gardeners until 1892 when the late J. H. Veitch found a plant growing in a nursery in Tokyo and sent it to England. In the edition of the Catalogue of the Yokohama Nursery Company, of 1901, *Azalea Schlippenbachii* appeared, and at about this time it was imported by Mr. Thomas Proctor and planted in his garden in Topsfield, Mass., where the plants are still growing. These are the oldest and largest in the United States, for the Arboretum plants were raised here from seeds brought home by Mr. J. G. Jack from Korea.

R. Schlippenbachii, although it has remained exceedingly rare in western gardens, will probably be much better known in a few years, for in the autumn of 1917 Mr. Wilson sent from Korea a large quantity of the seeds to the Arboretum. These were distributed among the best gardeners in the United States and in Europe, and as several thousand seedlings have been raised in the Arboretum nurseries, there seems now to be no reason why this beautiful plant should not become one of the chief beauties of spring gardens in regions too cold for the successful cultivation of any other Azalea with such large and beautiful flowers.

R. poukhanense is another Korean azalea which is almost equally as fine and a little better known, at least among Arboretum visitors. It is a smaller plant, rarely growing more than three feet high on the Pine-covered mountain slopes of the central part of the peninsula. It was first raised at the Arboretum from seeds also brought home by Mr. Jack, and its beautiful rose-lilac, fragrant flowers have been freely produced here now every spring for several years. As it grows in the Arboretum this Azalea is a low, broad, round-topped shrub with its lower branches close to the ground. Roots are produced by such branches and would, if cut off and planted, probably soon produce flowering plants. *Rhododendron poukhanense*, although practically unknown as a garden plant beyond the limits of the Arboretum, deserves a place in all New England collections.



AZALEA POUKHANENSE AT THE ARNOLD ARBORETUM.

NEWS AND COMMENT

THE BOSTON FLOWER SHOW.

If it had not been for Mr. Marlborough, Superintendent of the Thomas H. Proctor estate at Topsfield, the flower show at Horticultural Hall Saturday and Sunday would have been the greatest fizzle in the history of the organization. There was not a single entry in the class devoted to flowers, and only a very meager number in the other classes. It was disheartening enough to see the rows of tables without a single blossom displayed. Had it not been for Mr. Marlborough's enterprise and public spirit, it would have been necessary to close the doors as soon as they had been opened. In the center of the hall he had a splendid exhibition of campanulas, Tausendschon roses, tree geraniums and other plants—a very creditable showing indeed.

The list of prizes and gratuities awarded were as follows:

Awards for Plants and Flowers.

Wild Flowers.—Collection, named: 1st, Hillcrest Farm.

Gratuity.—Thomas H. Proctor, display of flowering plants.

Cultural Certificate.—James Marlborough, Carnation Laddie.

Awards for Vegetables—William J. Walker Fund.

Asparagus.—Forty-eight stalks in four bunches: 1st, Oliver Ames. Cauliflower.—Four heads: 1st, Faulkner Farm. Lettuce.—Four heads: 1st, Oliver Ames; 2d, Faulkner Farm. Collection of Vegetables.—Six varieties: 1st, Faulkner Farm; 2d, Oliver Ames.

Gratuity.—Faulkner Farm, collection of forced beans.

Miss Case's exhibit was interesting and novel, especially the miniature rock garden. She showed a specimen of the Japanese udo, a plant which grows to a height of about eighteen inches, judging by this specimen, and which has a stalk that is as popular as an article of diet in Japan as asparagus is in this country. A card attached to the plant gave the information that it may be sliced into ice water and served with French dressing, or stewed and served like asparagus. Miss Case is taking part in the campaign to introduce new and healthful articles of diet into the United States.

PHILADELPHIA.

Charles Sim of Rosemont has returned from his three months' sojourn in Arizona and the Coast. He looks fine and seems to have taken on a new lease of life.

We beg to acknowledge receipt of a dainty leather match safe from the Johnston Brokerage Co. These great glass moguls are cheerful givers, and they are all the time springing something new on their hosts of friends, in the florist business, as well as in other trades where glass is required in quantity from first hands. Thanks. We will try to reciprocate and say a good word every time we strike a light.

The first two weeks in May have been very wet and cold and counter trade has fallen off from the high record of the past four months. So say the seedsmen. But they can't kick, even at that. At the lowest estimate spring season of 1919 will run anywhere from forty to one hundred per cent ahead of 1918. So these ambitious boys who want to make every day in the year beat the record ought to take heart of grace. All's well.

The prospects for peonies in time for Memorial Day trade are very good for this vicinity. The cool weather during the first three weeks of May has held them back of course but that is rather a favorable circumstance than otherwise, as they will thus come in about the 25th, which is as near ideal as possible. Our friends further East, North and West can get real Philadelphia quality this year grown cool and just right for the holiday. The general conditions of the flower market were all that could be desired. Prices held steady and there was no surplus.

Many of the soldiers who came from the plow disagree with the slogan: Reward the returned hero by giving him his old job.—*Louisville Courier-Journal*.

This may make Henry Penn sit-up, and not wonder any more about the boys not going back to their jobs in the potting sheds.

As for those seven sons—maybe pop spent a few dollars in bringing them up, giving them an education, and learning them the business. Why shouldn't he get some return? One good turn deserves another. Any

right minded son should disdain to look on himself as a hired man to his father.

ROCHESTER.

Business during the past week has been good. Sweet peas have been in abundance and cleared at a low figure. Violets are inferior and few are seen. Some good quality Spanish iris are on the market and sell well. Delphinium, snapdragon, baby gladioli are being used extensively for basket arrangements. Carnations are good in quality but none too plentiful. Some good mignonette is seen and sells easily. Roses of all kinds are plentiful. Calendulas, Darwin tulips, jonquils, pansies, forgetmenots and candytuft are in fair supply. Bedding plants of all kinds are arriving and in good demand.

Preparations are being made for the removal of the Wilson Wholesale Co. to its new headquarters at 88 Main street, East, where the two concerns will carry on business in the usual way. The entire second floor is to be fitted up as an office and wholesale display room, and the basement as a stock-room.

The tulips in the Rochester parks are now at their height of bloom and it is expected thousands will be attracted to them. Plymouth Park offers perhaps the most brilliant tulip beds, but good displays are also seen at Highland Park where a number of the rhododendrons are also in bloom. The lilacs in Highland Park are expected to be in full bloom May 25th, but it is expected that the display will last until over Memorial Day. Frost has injured somewhat the Oxford street display of magnolias, but nevertheless it is of considerable beauty.

Mrs. Smith of the Rochester Floral Company has been confined to her home for the past week with quinsy.

BOSTON.

The new organization known as the Boston Florists' Association held its second meeting Tuesday evening at the Parker House, where a banquet was served. About fifty were present and much enthusiasm was shown. Apparently this organization is going to be just what the growers and retail dealers need for the betterment of business and business relations. The president, Henry Penn, presided and patriotic addresses were made by Sailor Ryan and Chief Yoeman Manniff, who was in the trade before he entered the service. Both men proved to be eloquent speakers and were warmly applauded.

A constitution and by-laws were adopted and it was voted to hold the meetings of the association on the first Tuesday of each month in order that they might not conflict with those of the Gardeners' and Florists' Club. A banquet is to be served at each meeting for nine months of the year. The dues were fixed at \$20 a year with five dollars as the initiation fee. It was voted to co-operate with the Salvation Army in raising money and arrangements were made for a sale of flowers at Liberty cottage on the common.

The Boston Horticultural club held a meeting and banquet at the Parker House Thursday evening of last week. Previously the members had enjoyed a walk through the Arnold Arboretum under the guidance of Earnest H. Wilson, particular attention being given to the early azaleas, the crabapples and the shrubs in the Chinese collection.

The regular meeting of the Gardeners' and Florists' club of Boston was held Tuesday evening, when a very practical talk on accounting was given by F. E. Palmer of Brookline. His remarks are given at length on another page. It was voted to hold a ladies' night on the date of the regular meeting in June and to have a picnic at Cunningham Park in Milton in July. It was voted that a committee be appointed to consider a revision of the by-laws and the possible raising of the dues.

OBITUARY.

James Anthony Foster.

James A. Foster, owner of one of the largest greenhouse and horticultural plants in Rhode Island, died Thursday morning, May 15, of heart trouble, at the age of 73, at Postmere, his handsome home on Warwick Neck in the town of Warwick.

The Warwick Greenhouses, which Mr. Foster established many years ago were developed in accord with the owner's great love of nature and his estate was one of the show places of Rhode Island, the landscape effects being one of the most attractive in this section of the country.

A widow, Mrs. Harriet E. Foster, who was Miss Harriet E. Hooker, of Boston, a daughter and son survive.

Julius David Nigh.

Julius David Nigh, scientist, botanist and rose grower of Berkeley, Cal., father of William Nigh, motion-picture director of New York City, died in Berkeley following an operation.

Flower Market Reports

The unexpected happened **BOSTON** this week. On Monday the bottom began to drop out of the market and by the middle of the week prices had dropped 50 per cent or more. Of course a certain lull had been expected before the week of Memorial Day, but so great a slump was wholly unlooked for. The buying naturally eased off but a surprisingly large number of flowers came pouring in, from just where it was hard to tell, and the result of the combination was soon seen. Two or three times the past week surplus flowers have been distributed among the hospitals. This shows where the market stood. The flowers given away were largely sweet peas and calendulas. The latter were especially abundant, with the selling hard. It is expected, of course, that there will be a big stiffening of prices the coming week, as heavy buying for Memorial Day is anticipated. There will be some outside flowers. Lilacs are being received in Boston from New York state but are being sold for about whatever anybody will offer.

The demand for near-
NEW YORK ly all varieties of flowers shows a marked decline from last week. With an increased supply prices have accordingly suffered. While clearances of roses are difficult, the carnation situation is the more difficult though it is not usual that they go well just at this season. Outdoor lily of the valley is in good supply and of excellent quality. It has been selling at the best prices on record up to this time. Longiflorum lilies are pretty much finished, very few being seen in the market. Outdoor lilac seems to hang on together with snowballs and such like stock. Asparagus is alternately light and heavy in supply. Callas have been doing remarkably well this season. The market is plentifully supplied with daisies, calendulas stocks and other miscellaneous stock.

As was to be expected
CHICAGO the week of the largest sales of the year and a Memorial Day that has set a record for the use of cut flowers that never has been surpassed and that will be difficult to excel in the future, has been followed by one of little activity. This accompanied by warm spring weather, almost the first of the season, has brought out the flowers till the wholesale stores are filled to overflowing with all kinds of stock. The excess supply of roses and sweet peas is especially heavy and roses are selling at a fraction of what they brought two

weeks ago. There seems no end to the sweet peas now coming and unless trade again resumes its normal proportions they will net the growers almost nothing. Peonies are also rapidly filling the counters and the cold storage plants are taking care of thousands of dozens. Carnations are more plentiful than at any previous time this season. Southern iris and northern are both here in abundance and some growers are sending in novelties, such as fringed red poppies, so double as to resemble round fluffy balls, ranunculus of red, yellow and white, lavender candy tuft, etc., while the usual spring supply of tulips, gladioli, wall flowers, daisies, pansies, stocks lilacs, bachelor buttons and emeralds are large. A glut is imminent unless something occurs to use up the large supply now on hand and coming daily.

The market, again,
CINCINNATI is well supplied with all seasonable stock.

Business is holding up fairly well, but it is inclined to be quiet. The commencement season is starting and is taking up its share of the daily receipts in flowers. Roses are now in a good supply that can take care of all calls for them. As a whole, the stock is of a high quality. Carnations meet with a market that is fairly good. Peonies are coming along nicely. The local cut is not up to normal, so the chances are we will not have a glut in this flower this year. Easter lilies, callas and rubrums prove good property at times. Gladioli sell readily. Snapdragon are in a heavy supply that is too large for actual needs. Other offerings are iris, calendula, corn-flower and Marguerites. New fern are selling well.

Mothers' Day business
ST. LOUIS from all reports was good. Prices which were high, of course were objected to; but carnations were scarce. It was but natural that the demand should cause an advance. At time of writing all stock is largely on the increase. Outdoor will shortly take the place of indoor stock. Carnations and roses are getting more plentiful.

COMING EVENTS.

New York City.—The American Institute and the American Dahlia Society, exhibition of dahlias in the Engineering Building, 25-33 West 39th St., Sept. 23 to 25. William A. Eagleson, 322-324 West 23d St., Secretary.

San Francisco, Cal.—Dahlia Society of California, Fall show at the Palace Hotel, Sept. 4, 5 and 6.

Toronto, Can.—Canadian Hort. Assn. convention, Aug. 12, 13, 14 and 15.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

NATIONAL PUBLICITY CAMPAIGN.

Interest in the National Publicity Campaign is broadening, as the benefit resulting from it becomes more and more apparent. It is not strange that many reports come to the Promotion Bureau pointing out specific benefit from the national magazine advertising. A prominent florist when discussing the future of the campaign spoke of the early days when the initial advertisements appeared. In that season, he said, business had just dragged along, very little doing, until the opening of February, when there was a very noticeable spurt, with a big St. Valentine's Day trade, and this good business continued until the end of the season. If this was not due to the magazine advertising he said, to what was it due, for it certainly was remarkable?

Florists who are closely watching the progress of our work are loud in their praises, realizing that the results are plainly to be seen. In many communities week-end business has increased wonderfully. Birthday business, too, has gone forward by leaps and bounds. The slogan "Say it with Flowers," is having a far reaching effect, as it was intended it should. Such a reminder is very necessary to some people. How many orders do you suppose the slogan sign you are displaying—if you are displaying one—has brought into your establishment? You might be astonished, if you had kept a record, which would not have been difficult, for most people impressed by the sign make reference to it when its message gets home in this way.

In this connection, we wish to draw the attention of every florist to our page in colors in the June Metropolitan, which went on sale about May 14th. Do you suppose this advertisement will be missed by the half million purchasers of that issue—a half million of flower-buying prospects scattered over the country? And, remember, it is generally conceded that each copy of a high class magazine has five readers.

If you have not a sign, don't you think it time to secure one, either in glass or transfer form? Several of our large supply houses are carrying stocks of glass signs, which they supply to their local trade at the adver-

tised cost, \$2.00, without profit to themselves. S. S. Pennock Co., Philadelphia, M. Rice Co., Philadelphia, Geo. B. Hart, Rochester, N. Y., Wm. F. Kasting Co., Buffalo, N. Y., Pittsburgh Cut Flower Co., McCallum Co., Pittsburgh, Poehlmann Bros. Co., Chicago, St. Louis Wholesale Cut Flower Co., and Welch Bros. Co., Boston are among them. The Secretary would like to hear from other wholesale and supply houses who would undertake to place among their local trade a few of these signs. To see one is to buy one, if a retailer.

Need it be again said that our Publicity Committees cannot carry out their plans for publicity unless they pay as they go. It is all right, Mr. Nonsubscriber, to commend the work which your brother florists are doing for you, but wouldn't it be better to cash in on the good intentions you undoubtedly have, and send to the Secretary your cheque for the amount you know you are willing to contribute. Get wholly into the game, it needs you. We are trying to raise \$100,000 this year, to give back to the contributors very many times that amount in increased business. Every subscription is recorded, and every item of expense laid before the subscribers. If you want to see what your neighbors have subscribed, write to the Secretary for a subscription list to date. If you find they have not yet subscribed, beat them to it—be a whole-souled, up to date florist who desires to see the florist trade at its best.

The following subscriptions have been received and are in addition to those previously announced, annually for four years, unless otherwise stated:

Elizabeth Huth, Utah.....	\$25.00
Stiles Floral Co., Oklahoma City, Okla. (Addl. Subn.).....	25 00
Henry A. Aldrich, Neoga, Ill.....	10 00
Joseph Raffgerder, Teaneck, N. J.....	5 00
French & Salm, Union Grove, Wis.....	10 00
Stewart Ritchie, Newport, R. I.....	5 00
Boyle & Darnaud, San Diego, Cal.....	5 00
Jerry Brookins & Son, Orchard Park, N. Y.....	10 00
Herman Bauske, Chicago, Ill.....	25 00
James J. Bates, Oakfield, N. J.....	3 00
E. W. Espy & Sons, Brookville, Pa.....	5 00
R. C. Bridgman, Newtonville, Mass. (1 yr.).....	10 00
Fred K. Utter, Rye, N. Y.....	5 00
Britz, The Telephone Florist, Danville, Ill.....	10 00
F. B. Abrams, Blue Point, L. I.....	25 00
H. F. A. Lange Est., Worcester, Mass.....	50 00
J. H. Snyder, Violet Grower, Rhinebeck, N. Y.....	5 00
	<hr/> \$233.00
Previously reported.....	36,010.00
Total	\$36,243.00

New Privet Registered.

Public notice is hereby given that as no objection has been filed against the registration of Ibolium Privet by The Elm City Nursery Co., Woodmont Nurseries, Inc., New Haven, Conn., the same becomes complete.

JOHN YOUNG, Secy.

1170 Broadway, New York.

May 19, 1919.

ESTABLISHING PROFITABLE RELATIONS.

The meaning of the above line might be construed many ways, but to those of us in the interest of National Publicity and otherwise, who have enjoyed the benefits of the campaign, profitable relationship might be the answer. Those of us who have connected themselves with it have little cause for complaint, but to the countless thousands of florists who have not tied up to this new relationship there is something in store for you by way of more business, more affiliation with a good movement, and a satisfaction that you have done your duty, which will be worth more to you by way of consciousness than you've any idea of simply because you did your part in building up this new relationship of more good-will for all florists so that all may join in the benefits. And surely it is one of the most progressive movements we have ever been privileged to participate in.

If all our relations in this family of florists do a little, we will swell our fund to the \$100,000 so that the florist industry will receive even a greater impetus than you can conceive. Join the family while the joining is good.

HENRY PENN.

COMING MEETINGS.

Chicago—American Seed Trade Ass'n, annual convention, June 24 to 26. Secretary, C. E. Kendell, 216 Prospect Ave., Cleveland, O.

Chicago — American Association of Nurserymen, convention, Hotel Sherman, Chicago, June 25-26-27. Charles Sizemore, Louisiana, Mo., Sec'y.

Detroit, Mich.—S. A. F. and O. H. Convention at Acadia Hall, Aug. 19, 20 and 21. Secretary, John Young, 1170 Broadway, N. Y. City.

Hartford, Conn.—Conn. Hort. Society, fall flower show, Sept. 9, 10 and 11. Sec'y Alfred Dixon, Wethersfield, Conn.



John A. Booth's tribute to Davey Tree Surgery

*John A. Booth, superintendent
estate of J. J. Van Alen,
Newport, R. I.*



A portion of the grounds of the estate of J. J. Van Alen, Ochre Point, Newport, R. I. Many of these priceless trees have been treated by Davey Tree Surgeons

Gentlemen: I cannot speak too highly of the efficiency shown by your experts working on the estate of Mr. J. J. Van Alen. It astonished me to see the way they cabled some of the fine specimen maples and elms. Each man worked like a clock. Each man knew exactly what was expected of him.

The trees had been previously chained with heavy chains, but when your men finished with a tree these chains hung so loose as to be entirely useless. The cables your men put in are a great improvement, and can hardly be seen from the grounds.

In closing, I would say that I was highly pleased with the courteousness and gentlemanly bearing of every one of the experts. It is a great relief to superintendents and gardeners to have such men around who can be trusted to be live wires at all times.

Wishing you a prosperous year, very truly yours,

JOHN A. BOOTH.

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THE GARDENERS' SECTION

HELP SHORTAGE.

Facts Brought Out at the Boston Gardeners' Conference.

It was unfortunate that the attendance at the Gardeners' Conference held in Horticultural Hall, Friday evening of last week, was so small, as subjects of vital importance to the craft were brought up for discussion. Martin Ebel, Secretary of the National Gardeners' Association, was present, and gave a report on general conditions as seen from his office. Apparently the lack of help which exists in New England is to be found all over the country. Perhaps that statement should be modified somewhat, however. It seems possible to get help if the estate owner is willing to pay the wages asked, which in most instances he isn't.

The shortage of second men is especially noticeable. In many instances head gardeners are doing much of the work which second men ordinarily performed. Laborers want wages which correspond to those paid by big industries. Around New York a great many Italians are going onto the estates. Around Boston it is difficult to get them to go any distance from the cities. If they can live at home they will do garden work, but not otherwise, except in some cases where there are married men with families.

One of the largest estates in eastern Massachusetts formerly kept from seventy-five to a hundred men. Now there are less than thirty on the place, and of course the grounds testify to the shortage, in spite of the superintendent's best efforts. Many estate owners prefer to keep a part of their greenhouses closed and to give up further development of their places at present rather than to pay four or five dollars a day for laborers.

It seems to be a fact that the pay of laborers is getting too close to that of the head gardener to be relished by the latter. In many cases the head gardener's wages have not been increased to correspond with the general advance.

As was brought out at the conference in Boston, there is great difficulty in inducing young men to make gardening their life work. The question of immediate wages has a greater influence than future considerations. When an office boy can get ten dollars a week and any capable young man in a business house can expect to draw twice that in a short time, they are at-

tracted away from the greenhouse and the garden, even though the work in the towns may be much less congenial. The country seems to be money mad and the garden craft suffers thereby. It remains to be seen whether the employers will presently increase their appropriation and pay the wages asked to get the men or if they will be content to run short handed until conditions change. From the present outlook the latter bet is the better one.

A HEAD GARDENER'S IDEAS.

Editor HORTICULTURE:

Nowadays, even the name "Gardener" is "Taboo." We are "Superintendents"—and farmers and others whether they have any professional ability or not come under the term. And so with gardening papers. Seemingly they have no use for the word. Some other name must do duty, the extreme being reached with "Ornamental Horticulturists."

There are very few native American gardeners in the English sense—men who have served their time.

In over 30 years as head gardener, I cannot claim to have trained a single American young man, and sent him out as a practical gardener.

The American young man is unwilling to make any sacrifice for his

training. He wants journeyman's pay at once. He gets it or quits.

We have here a fine hardy herbaceous plant garden, a splendid collection of deciduous trees and shrubs, and the finest collection of rhododendrons and coniferous evergreens to be found in any private place in the United States.

Do any of my men spend a minute "during hours" or after, for study. No. Will any of these men take HORTICULTURE. No. So there you are.

HEAD GARDENER.

CLIMBING ROSES.

Editor of HORTICULTURE:

Dear Sir—The Massachusetts Horticultural Society has at last put in their schedule a class for Climbing and Pillar Roses (Hurrah) which will please a good many of the growers of them, and they are increasing yearly. As they add greatly to the exhibit on account of their decorative effect let us hope they will be more sought after in the future.

One of the reasons why they have not been recognized before was that until recently, there were so few varieties that bloomed in time for the June shows. Now, in a normal season, fifteen to twenty kinds can be picked from a collection of the right varieties.

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There are fewer hybrid perpetuals and more hybrid teas and climbers grown than formerly, so these last two should be catered to, in order to have as good an exhibit as possible even to the extent of having the exhibition a week later than has been the custom.

Let us hear from some of the growers through your columns on outdoor roses of these classes. A. J. FISH.

New Bedford, Mass.

FINE SPECIMEN OF SCHIZANTHUS

Thomas W. Head, superintendent of J. O. Armour's estate at Lake Forest, Ill., has grown some specimens of Schizanthus Westonensis which have been greatly admired. The plant shown in the accompanying illustration is six feet across and remarkably



symmetrical. Mr. Head as president of the American Gardening Association has become well known. He has an enviable reputation for growing fine plants. The specimen being described were exhibited at a recent meeting and scored 98 points out of a possible hundred.

PATENTS GRANTED.

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RAMBLING OBSERVATIONS OF A ROVING GARDENER

It was the writer's privilege last week to visit the Arnold Arboretum in company with several well-known nurserymen and gardeners, and to see some of the introductions made by that famous institution. One of them, an azalea, is one of the most promising plants which has been seen for a long time. It is unfortunate that it is saddled with the unpronounceable name of *Schlippenbachii*, though it seems to have acquired the name in a fair enough way, having been given it in honor of a Russian admiral. F. R. Pierson, of Tarrytown, was in the party, and seemed much impressed by this plant. "You will have to give it another name, though," he said, turning to Mr. E. H. Wilson, "We can never put it on the market labeled '*Schlippenbachii*' and expect to sell it." "Very well," said Mr. Wilson, "call it, if you like, the pink Korean azalea." Perhaps that is the name by which it will be known to the public in general. There is no doubt about its being popularized, for thousands of the seeds obtained by Mr. Wilson have been distributed. It is understood that Professor Sargent, of the Arboretum, is to have at least a thousand of these azaleas planted on the side of Bussey Hill, where they should make a wonderful display. This azalea should appeal especially to New Englanders because of its hardy character. It thrives in Korea, according to Mr. Wilson, where the temperature drops to 40 degrees below zero. There is little doubt, therefore, about its enduring American winters.

Speaking of the plan to plant out a thousand of these azaleas in the Arboretum recalls a remark made by Mr. Wilson which leads to the assumption that a special feature is to be made of all the hardy azaleas, native as well as foreign. A splendid opportunity presents itself, and there is no reason why in ten years from now the Arboretum should not have an annual azalea show such as will attract visitors by the thousands from all over the country. There is no

space for a big massing of cherries or other flowering trees, and by using azaleas in the generous way indicated, the Arboretum will have something individual and distinctive.

Apparently it is only by presenting some great smashing show of color that people can get attracted in large numbers to any public park or institution of this kind. A big display of any plants, though, with the right kind of publicity, does draw the crowds, and many of the people who come find other things of interest. This is being demonstrated at Rochester, N. Y., where thousands of people go out to see the lilacs. When the acres of flowering cherries reach blooming size, they too will make a strong impression on the public mind. It is a kind of advertising which leads people to think of the place as a good one in which to live, and do business. It is a pity that more municipalities and park officials do not realize this fact.

While people in general are fond of flowers, many of them have a curious lack of knowledge concerning varieties, even those which are fairly common. One member of the Arboretum party remarked that he was conducting a special sale of old *Ophelia* rose bushes. They were going at a low price and he was receiving hundreds of letters, many of them asking if the rose could be supplied in different colors, if it were a climber, and so on. Doubtless, however, he didn't mind answering these questions, absurd as they may have seemed to him, because each morning mail also brought a sheaf of checks.

Evidently the discussion over gardener's wages still rages in England. One of the magazines across the water contained a particularly tart and readable answer to the remarks of an employer recently reprinted in *HORTICULTURE*. He said:

To a good deal of what "Landowner" says little exception can be taken; but when he proceeds to say that "outside kitchen gardening, it is practically non-productive or luxury labor," I feel that he is overstepping the facts. In the first place, how does "Landowner" assess the pleasure he derives from a well-kept flower garden? Does he place

this as of no account? If so, then practically all the other labor he employs must be set down in the same category. I do not know what form "Landowner's" recreation takes, but be it shooting, motoring, fishing, horse-racing, hunting, or indeed, any form of sport or pleasure, then not one of these can be claimed as productive investments. Indeed, speaking generally, they are much more expensive than gardening, even if we confine the latter to flower-growing and policy-tending. As compared with the other employes, the gardener has never come within sight of being adequately paid. Taken all over, his work is harder, his hours longer, and his responsibility much greater than that of any other servant. He has also to be much better educated than is essential for stablemen, gamekeepers, or even indoor servants. So why he has always been so miserably remunerated is a puzzle. "Landowner" is also in error when he states that "the labor (outside digging) is not really hard." Let him put in a full day at a lawn-mower or with a scythe, and he will change his opinion; and there are numerous other jobs that demand considerable physical exertion. In the past it has only been the keen love of their profession that has kept all the best of our gardeners at the work, and it is to be hoped that employers may now deal justly with a class which compares most favorably with any other trade or profession in the country.

AN INTERESTING METHOD OF GROWING SMALL VEGETABLES

A vegetable gardener of North Monaghan, Peterboro, has introduced in his vegetable growing an interesting method which is said to be new to this section of the country, though used in some parts of the United States. He has tried it for the past two years with considerable success.

In planting carrots, beets, onions and radishes, his method is simply to plant in double rows instead of single rows. The seed is planted in rows four inches apart, with a space 16 to 24 inches between each double row. Twenty-four inches was used between the double rows of carrots to allow for the use of a horse cultivator. Each double row is weeded and thinned anglewise. The two rows seem to shade each other, and are less affected by the sun than the single rows, and it is this gardener's experience that he has secured better vegetables by this method than by any other he has tried. —*The Canadian Florist*.

AMERICAN DAHLIA SOCIETY.

A meeting of the Executive Committee of the Society, in conjunction with the Nomenclature Committee, was held at the Grand Hotel, New York, on Monday, May 12th.

A memorial resolution in memory of the work and activities in the Dahlia world of the late J. H. Slocombe, New Haven, Conn., was presented and adopted.

The members of the two committees, with all the officers of the Society, were constituted a board of judges to inspect and judge the new varieties of Dahlias planted this year on the Society's Trial Garden, conducted by the Connecticut Agricultural College at Storrs, Conn. It was also decided that the day to be selected for the official inspection should be a Society day, when all members and friends would be welcomed at the Garden.

A preliminary schedule of classes for the Fall Show, to be held under the auspices of the American Institute, in the Engineering Building, 25-33 West 39th St., New York, on September 23, 24 and 25, was prepared and adopted. It was arranged that in all classes calling for decorative arrangements the use of other flowers, grasses, or foliage will be allowed to bring out the colors of the Dahlias, but Dahlias must predominate.

The matter of registration with the Society of names of new Dahlias was discussed at considerable length. It had been reported that duplication of names was becoming so general as to cause regrettable confusion in catalogue descriptions. For instance, three varieties had been given the name of General Pershing, each different in color and classification. It was decided to inaugurate a department of registration, which, it was hoped, would at least minimize this evil. Raisers of Dahlias are requested at naming time, to send to the Secretary a description of the Dahlia to be named, with the proposed name, and an application for registration. The application will be advertised, and if no objection should be received within a specified period the name selected would be registered. All Dahlias presented for registration must be distinct varieties, mere varietal differences not being considered. The cooperation of local societies and horticultural organizations is to be solicited in this work, and in the case of an award of a certificate to a variety, it is to be recommended that the name of the variety be submitted to the American Dahlia Society for registration prior to the issue of a certificate.

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Trial Garden Rules.

The following rules governing plantings in the Trial Garden were adopted:

SCALE OF POINTS IN JUDGING

The Nomenclature Committee recommended for acceptance, the following scales of points in Judging Dahlias, and the same were duly adopted:

EXHIBITION VARIETIES

Color	20
Stem and foliage.....	25
Substance	15
Form	20
Size	20

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Color	25
Foliage and stem.....	25
Substance	25
Form	15
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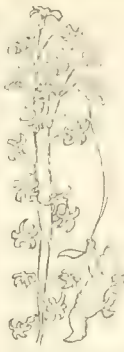
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Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—The Rosery, 23 Steuben St.
Albany, N. Y.—Danker.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont St.
Brooklyn, N. Y.—Wilson, 3-5 Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.

Buffalo, N. Y.—Palmer's, 304 Main St.
Cambridge, Mass.—John McKenzie, 1927
Mass. Ave.

Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th
St.

Cleveland, O.—The Smith & Feters Co.,
735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643
Broadway.

Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.

East Orange, N. J.—Smith, The Florist.

Fall River, Mass.—Warburton, 495 New
Boston Rd. and 36 N. Main St.

Fishkill, N. Y.—Wood Bros.

Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.

New York—David Clarke's Sons, 2130-
2141 Broadway.

New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.

New York—Dards, N. E. corner 44th St.
and Madison Ave.

New York—G. E. M. Stumpp, 761 Fifth
Ave.

New York—Kottmiller, 426 Madison Ave.
and 49th St., also Vanderbilt Hotel.

Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.

Philadelphia—F. M. Ross, 136 So. 52nd
St., 13 So. 60th St., 212 E. Girard Ave.

Philadelphia—Chas. H. Grakelow, Broad
St. at Cumberland.

Providence, R. I.—Johnston Bros., 33
Dorrance St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave. N.

St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.

St. Paul, Minn.—Holm & Olsen, Inc.
Tarrytown-on-Hudson, N. Y.—F. B. Pier-
son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.

Worcester, Mass.—Randall's Flower Shop,
22 Pearl St.

New York—Thos. F. Galvin, Fifth Ave.,
at 46th St.

ST. LOUIS, MO.

FRED C. WEBER

4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of

TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP

8-10 West Adelaide St. - TORONTO, ONT

HESS & SWOBODA

FLORISTS

Telephones 1501 and L 1532

1415 Farnum St.

OMAHA, NEB.

PHILADELPHIA

CHAS. H. GRAKELOW F. T. D.

Everything in Flowers

Broad Street at Cumberland

The Park Floral Co.

B. E. GILLIS, President.

E. P. NEIMAN, Secretary.

Member Florists' Telegraph Delivery

DENVER, COLORADO



A Card This Size

Costs only 90c. per Week
on Yearly Order

It would keep your name and your
specialty before the whole trade.
A half-inch card costs only 45c. per
week on yearly order.

TRY
Horticulture's Advertisers
FIRST
Before Looking Elsewhere
Tell Them You Did So And
They'll Reciprocate

EDWARD REID
WHOLESALE FLORIST
 1619 - 21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
 and all Seasonable Varieties of Cut Flowers

Wired Toothpicks
 Manufactured by
W. J. COWEE, Berlin, N. Y.
 10,000...\$3.25 50,000...\$0.75 Sample free.
 For sale by dealers.

GEORGE B. HART
WHOLESALE FLORIST
 24 Stone St., Rochester, N. Y.

E. G. HILL CO.
Wholesale Florists
RICHHMOND, IND.
 Please mention Horticulture when writing.

MICHIGAN CUT FLOWER
EXCHANGE, Inc.
WHOLESALE COMMISSION FLORISTS
 Consignments Solicited
Hardy Fancy Fern Our Specialty
264 RANDOLPH ST., DETROIT, MICH.

The House for Quality and Service
ZECH & MANN
 We are Wholesale Florists Doing
 a Strictly Wholesale Business
30 East Randolph Street, CHICAGO

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

Get Bigger and Better Mail Returns From Your
NURSERY CATALOGS

by having them profusely illustrated and well printed. Use the colors of nature on the covers. To accomplish this, place your printing order in the hands of nursery catalog and color printing specialists who will plan your catalog, furnish all the illustrations and color plates, and charge but a fair price for the printing. Now is the time to place your order, as our capacity has its limits. Write right now. Estimates and dummies furnished without any obligation incurred.

CAMPBELL-JOHNSON PRINTING CO.
 Tenth and Walnut Streets - DES MOINES, IOWA
 PRINTERS TO THE NURSERYMEN OF AMERICA

IF You Want Anything from Boston Get It
From Henry M. Robinson & Co.

For Safety Place Your Orders With Us

HENRY M. ROBINSON & CO.
 2 Winthrop Square and 32 Otis Street, BOSTON, MASS.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

Wholesale Growers of Cut Flowers
ROSES, CARNATIONS
AND ALL OTHER SEASONABLE STOCK
 Shipping orders have most careful attention always

WILLIAM F. KASTING Co.
Wholesale Florists
568-570 WASHINGTON STREET - BUFFALO, N. Y.

WE WANT MORE SHIPPERS

We have a numerous clientele of New York City buyers and the demand exceeds our supply. This is especially true of Roses. We have every facility and abundant means and best returns are assured for stock consigned to us.

Address Your Shipments to

UNITED CUT FLOWER CO. Inc.
 111 W. 28th St., NEW YORK D. J. Pappas, Pres.

New England Florist Supply Co.
 276 Devonshire Street BOSTON, MASS.

Telephones: Fort Hill 3469 and 3135.

Open 6 a. m. to 7 p. m.

When Writing to Advertisers Kindly
Mention HORTICULTURE



WEED KILLER

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS, TENNIS COURTS, DRIVEWAYS, ETC.

This fluid destroys weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

PINO-LYPTOL CHEMICAL CO., 507-509 W. 19th St., New York

CORRESPONDENCE SOLICITED.



Save your plants and trees. Just the thing for greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrips, Red Spider, Black and Green Fly, Mites, Ants, etc., without injury to plants and without odor. Used according to direction, our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

½ Pint, 20c.; Pint, 50c.; Quart, 90c.; ½ Gallon, \$1.50; Gallon, \$2.50; 5 Gallon Can, \$10.90; 10 Gallon Can, \$20.00.

Directions on package.

LEMON OIL COMPANY

Dept. S. 420 W. Lexington St., Baltimore, Md.



Pulverized or Shredded

Cattle Manure

Pulverized

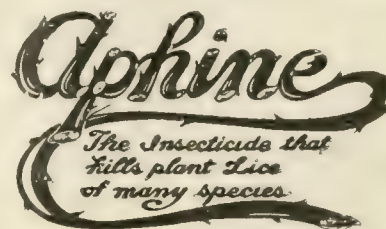
Sheep Manure

The Florists' standard of uniform high quality for over ten years.

Specify: **WIZARD BRAND** in your Supply House order, or write us direct for prices and freight rates.

THE PULVERIZED MANURE CO.

24 Union Stock Yard, Chicago



The Recognized Standard Insecticide. A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$2.50.

FUNGINE

For mildew, rust and other blights affecting flowers, fruits and vegetables.

Quart, \$1.00; Gallon, \$2.50.

VERMINE

For eel worms, angle worms and other worms working in the soil.

Quart, \$1.00; Gallon, \$2.50.

SOLD BY DEALERS.

Aphine Manufacturing Co.

MADISON, N. J.

MOTHER'S DAY RESULTS.

In Detroit, Mother's day business surpassed all previous records both in volume of business transacted and quantity of sales made. I can't say that the weather was ideal, because on Saturday it rained intermittently, it was also cold and blustery, in fact a very disagreeable day to look forward for business; Sunday A. M. it again looked dreary, but did not rain.

The question arises, what was the cause of this great volume of business? Was it because of the wonderful sentiment connected with Mother's day or was it some other agency? My belief is that sentiment played an important part, but without the aid of publicity, am of the opinion that Mother's day's business would not be one-half of what it is today. By publicity I don't mean only the advertising stunts pulled off by the various florists organizations. There is no question that the method of advertising adopted by the Detroit Florists is to be highly commended and was in part the means of this increase in business.

The large banners used by the Detroit florist on the panels of delivery cars are a wonderful source of publicity, they attract the attention of the public, where many other methods fail.

Advertising in the daily press is beyond question, the surest and best way to inform the public what we have to sell them, instill in your advertising matter a strong sentiment for Mother's Day, try and leave out as much as possible, commercialism, keep the sentiment aglow and the public will more readily respond. What part did the F. T. D. play in this important campaign of publicity? Do you realize that a very large part of Mother's Day business was accomplished through the adaptability of telegraph service. I can safely say that this particular branch of our business increased at least 25 per cent and was the means by which the public expressed their sentiment in distant places. The publicity given the F. T. D. service, was responsible in a large measure for the healthy increase in Mother's Day business. The F. T. D. service should be more strongly advertised to enlighten the public, that it is just as easy to have a floral tribute delivered to any part of the U. S. and Canada as it is in your home city, when the florists can gain the public's confidence, that you can guarantee good service and give full value for money expended you will be surprised at the results. The exchange of remarks and comments, by the recipient of the gift as

well as the sender are a splendid source of publicity. The F. T. D. has made splendid progress in the past eight years, the past year particularly has been a source of pleasure and gratification, as the gain in membership has truly made great strides. It proves that the retail florists throughout the country are beginning to see the light and that the F. T. D. service might be comparable or at least be called a New Era movement in the retail florists business.

In order to advance this so-called New Era movement, it is necessary that the hearty co-operation of every member is placed at the disposal of the Association, a luke warm or a half hearted effort is not desirable, but the energy and push of a live wire is needed. The florists business is in its infancy or in the embryo stage if I may so term it, and all that is necessary is for everyone connected with our profession to get busy and to keep busy, not to allow your energy to retard into a state of lethargy.

The F. T. D. office congratulates its members and co-workers for the splendid results obtained. The Association is in a very healthy condition, financially as well as added strength and influence.

ALBERT POCHELON

Sec'y. F. T. D. A.

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 148 West 28th St., NEW YORK
Telephones: 2289, 2291, Madison Square.

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5335, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

JOHN YOUNG & CO.
WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone Farragut 4396

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephones—4643-4532 Madison Square

RIEDEL & MEYER, Inc.
Wholesale Commission
READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

108 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE { 608 { FARRAGUT NEW YORK
609

THE KERVAN CO

Fresh Cut Decorative Evergreens.

Highest Standard of Quality. Largest
Stock in America. Write for Illustrated
Catalog of Greens and Florists' Supplies

119 W. 28th St., - - NEW YORK

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

* First Class Market for all CUT FLOWERS

Willoughby St., Brooklyn, N. Y.

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 2576 Farragut.

**J. K. ALLEN**

"A LEADER IN THE WHOLESALE COMMISSION TRADE FOR OVER THIRTY YEARS"

ROSES! I WANT ROSES!

Have a demand for more than I can supply. Rose Growers Call or Write.

118 West 28th St. **NEW YORK** **TELEPHONES**
Farragut 167 and 3066

J. J. COAN, Inc. Wholesale Florist

116 West 28th Street, NEW YORK

Phones: **Everything in Cut Flowers**
Farragut 5413 and 5891

HENRY M. ROBINSON CO. OF NEW YORK
WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 13-4510 Madison Square

Consignments Solicited

MAURICE L. GLASS, Treasurer

DOLANSKY-McDONALD CO.

Wholesale Florists

5 Winthrop Square

BOSTON, MASS.

Telephones, Fort Hill 3630 and 3631

CYPRESS GREENHOUSE STOCK

PECKY CYPRESS STOCK

HOT BD SASH

Ask for Circular D and Prices

THE A. T. STEARNS LUMBER COMPANY

NEPONSET, BOSTON

DREER'S "Riverton Special" Plant Tub

No.	Diam.	Ea.	Doz.	100
10	20 in.	\$3.25	\$37.50	\$287.50
20	18 in.	2.75	30.00	237.50
30	16 in.	2.25	26.00	195.00
40	14 in.	1.90	22.00	168.75
50	12 in.	1.50	15.00	110.00
60	10 in.	.95	10.50	77.50
70	8 in.	.75	8.25	62.50

The Riverton Tub is sold exclusively by us, and is the best ever introduced. The neatest, lightest, and cheapest. Painted green and bound with electric-welded hoops. The four largest sizes are equipped with drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs and Supplies, 714-716 Chestnut St., Philadelphia, Pa.

REED & KELLER

122 West 25th St., New York

Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Boston Floral Supply Co.

347-357 Cambridge St., Boston
SHOW ROOMS, 15 Otis Street and
96 Arch Street

Headquarters for
CYCAS, BASKETS, WIRE DESIGNS
and WAX FLOWERS

When writing Advertisers kindly mention Horticulture

HANDSOME ORNAMENTAL CRABS.

In the current bulletin of the Arnold Arboretum Prof. Sargent discusses some of the ornamental crab-apples not mentioned in HORTICULTURE last week.

Malus cerasifera. This is an early flowering Crabapple and is believed to be a hybrid between *M. baccata* and *M. prunifolia*. Planted in good soil and allowed sufficient room for development it will grow into a large shapely tree with a broad, round-topped, irregular head of spreading often drooping branches. The flowers are fragrant and larger than those of the other Asiatic Crabapples, with pure white or occasionally greenish petals; and the fruit, which varies in size on different plants, is globose and dull red.

Malus micromalus, which is also an early flowering plant, is one of the least known of the Crabapples. It was first sent to Europe from Japan by Von Siebold in 1856 under the name of "Kaido," a name which in Japan belongs to *Malus Halliana*. In Japan this tree is rare and known only in gardens, and by Japanese botanists is believed to have been introduced into their country from China and to be a hybrid possibly of *M. baccata* with *M. spectabilis*. The habit of this plant is more pyramidal than that of other Crabapples and this habit makes the plants conspicuous in the collection. The largest plants are covered this year with their small, pale pink, delicate flowers which will be followed by light yellow fruit, often rose color on one cheek. A plant of *Malus micromalus* first came to the Arboretum from the Paris Museum in 1888 and the plants now growing here are descendants of that plant. It is still one of the rarest of the Asiatic Crabapples in western gardens.

Malus Halliana, with its form *Parkmanii* which has double flowers, is perhaps the most distinct of all Crabapples in the color of its rose-red flowers. It is a shapely small tree, with erect and spreading stems forming a narrow vase-like head, and dark green leaves. The globose reddish fruit is not larger than a small pea. The Parkman Crab was among the first Japanese trees to reach this country direct, having been sent by Dr. George R. Hall in 1862 to Boston where it was first planted in Mr. Francis Parkman's garden on the shores of Jamaica Pond. This Crabapple is a favorite in Japanese gardens where it is known as "Kaido," but has not been found in a wild state. Whatever its origin the Parkman Crab is one of the most distinct and beautiful

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Part of Week ending May 17 1919		First Part of Week beginning May 19 1919	
American Beauty, Special	20.00	to 35.00	20.00	to 35.00
" " Fancy and Extra	12.00	to 20.00	10.00	to 16.00
" " No. 1 and culls.	2.00	to 8.00	2.00	to 8.00
Russell, Hadley	3.00	to 30.00	3.00	to 25.00
Killarney, Ward	2.00	to 6.00	2.00	to 6.00
Radiance, Taft, Key	3.00	to 25.00	3.00	to 25.00
Ophelia, Sunburst	2.00	to 10.00	2.00	to 8.00
Carnations	3.00	to 8.00	2.00	to 5.00
Cattleyas	20.00	to 50.00	20.00	to 50.00
Lilies, Longiflorum	10.00	to 12.00	10.00	to 12.00
Lilies, Speciosum	.....	.....	.....	.....
Callas	8.00	to 16.00	8.00	to 16.00
Iris	4.00	to 6.00	3.00	to 6.00
Lily of the Valley	2.00	to 6.00	2.00	to 6.00
Snapdragon	2.00	to 6.00	2.00	to 6.00
Pansies	.50	to 1.00	.50	to 1.00
Daffodils	5.00	to 6.00	5.00	to 6.00
Calendula	3.00	to 5.00	2.00	to 3.00
Stocks	2.00	to 6.00	2.00	to 4.00
Wallflowers	.....	.....	1.00	to 2.00
Mignonette	2.00	to 3.00	1.50	to 3.00
Sweet Peas	.75	to 2.00	1.00	to 3.00
Violets	2.50	to 4.00	2.00	to 3.50
Marguerites	1.00	to 2.00	1.00	to 2.00
Gardenias	6.00	to 25.00	5.00	to 25.00
Adiantum	.75	to 1.25	.50	to 1.00
Gladioli	6.00	to 12.00	6.00	to 12.00
Asparagus Plumosus, & Spreng (100 bunches)	15.00	to 30.00	16.00	to 30.00

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON May 21		ST. LOUIS May 19		PHILA. May 19	
Roses						
Am Beauty, Special	20.00	to 25.00	50.00	to 60.00	50.00	to 75.00
" " Fancy and Extra	12.00	to 16.00	25.00	to 40.00	30.00	to 40.00
" " No. 1 and culls.	1.00	to 8.00	5.00	to 15.00	8.00	to 20.00
Russell, Hadley	3.00	to 12.00	5.00	to 25.00	10.00	to 20.00
Killarney, Ward	1.00	to 6.00	4.00	to 10.00	3.00	to 8.00
Radiance, Taft, Key	1.00	to 6.00	3.00	to 8.00	.....	to 8.00
Ophelia, Sunburst	1.00	to 6.00	4.00	to 10.00	3.00	to 10.00
Carnations	3.00	to 6.00	3.00	to 6.00	5.00	to 8.00
Cattleyas	25.00	to 5.00	50.00	to 75.00	60.00	to 75.00
Lilies, Longiflorum	12.00	to 14.00	20.00	to 25.00	15.00	to 20.00
Lilies, Speciosum	8.00	to 20.00	.....	to 8.00	.....	to 8.00
Callas	12.00	to 16.00	15.00	to 20.00	12.50	to 15.00
Iris	6.00	to 12.00	10.00	to 25.00	10.00	to 12.00
Lily of the Valley	2.00	to 8.00	6.00	to 8.00	8.00	to 10.00
Snapdragon	8.00	to 16.00	4.00	to 6.00	8.00	to 10.00
Pansies	.25	to 1.00	.....	to 5.00	5.00	to 6.00
Daffodils	6.00	to 8.00	5.00	to 6.00	.....	to 6.00
Calendula	1.00	to 2.00	2.00	to 4.00	2.00	to 4.00
Stocks	4.00	to 8.00	5.00	to 8.00	4.00	to 5.00
Wallflowers	3.00	to 4.00	.....	to 4.00	.....	to 4.00
Mignonette	4.00	to 6.00	2.00	to 4.00	3.00	to 4.00
Sweet Peas	.25	to .75	.20	to .75	1.00	to 3.00
Violets	.75	to 1.00	.35	to 1.00	.....	to 1.00
Marguerites	.50	to 1.50	1.50	to 2.00	.50	to .75
Gardenias	18.00	to 20.00	.....	to 30.00	30.00	to 40.00
Adiantum	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50
Gladioli	8.00	to 12.00	5.00	to 12.00	10.00	to 12.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	25.00	to 50.00	25.00	to 75.00	50.00	to 60.00

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI May 19		CHICAGO May 19		BUFFALO May 19		PITTSBURG May 19	
Roses								
Am. Beauty, Special	50.00	to 60.00	60.00	to 75.00	40.00	to 50.00	62.50	to 75.00
" " Fancy and Extra	30.00	to 40.00	30.00	to 50.00	30.00	to 40.00	42.50	to 50.00
" " No. 1 and culls.	8.00	to 25.00	12.00	to 20.00	3.00	to 15.00	6.00	to 25.00
Russell, Hadley	10.00	to 25.00	6.00	to 25.00	12.00	to 20.00	12.50	to 17.00
Killarney, Ward	6.00	to 15.00	6.00	to 12.00	5.00	to 12.00	8.00	to 15.00
Radiance, Taft, Key	10.00	to 25.00	5.00	to 25.00	6.00	to 12.00	6.00	to 15.00
Ophelia, Sunburst	8.00	to 25.00	6.00	to 15.00	6.00	to 15.00	10.00	to 20.00
Carnations	9.00	to 8.00	5.00	to 10.00	3.00	to 7.00	8.00	to 10.00
Cattleyas	75.00	to 100.00	60.00	to 90.00	75.00	to 85.00	100.00	to 125.00
Lilies, Longiflorum	20.00	to 25.00	10.00	to 15.00	15.00	to 20.00	20.00	to 25.00
Lilies, Speciosum	.....	to 8.00	.....	to 8.00	8.00	to 10.00	.....	to 25.00
Callas	15.00	to 20.00	6.00	to 15.00	15.00	to 25.00	20.00	to 25.00
Iris	6.00	to 8.00	2.00	to 4.00	8.00	to 10.00	10.00	to 12.00
Lily of the Valley	6.00	to 8.00	5.00	to 6.00	4.00	to 10.00	10.00	to 12.00
Snapdragon	8.00	to 15.00	8.00	to 15.00	6.00	to 15.00	15.00	to 25.00
Pansies	1.00	to 1.50	1.00	to 1.50	.40	to 1.00	4.00	to 6.00
Daffodils	2.00	to 4.00	3.00	to 6.00	1.00	to 5.00	2.00	to 4.00
Calendula	2.00	to 3.00	3.00	to 4.00	2.00	to 5.00	3.50	to 5.00
Stocks	4.00	to 8.00	6.00	to 12.00	3.00	to 6.00	.....	to 5.00
Wallflowers	.....	to 8.00	1.00	to 2.00	.....	to 5.00	.....	to 4.00
Mignonette	.....	to 1.50	4.00	to 2.00	3.00	to 5.00	3.00	to 4.00
Sweet Peas	1.00	to 1.50	1.00	to 2.00	.75	to 2.00	1.00	to 2.00
Violets	.....	to 2.00	1.00	to 2.00	1.00	to 1.50	.75	to 1.00
Marguerites	2.00	to 3.00	.75	to 1.50	1.00	to 1.50	.....	to 4.00
Gardenias	.....	to 25.00	25.00	to 30.00	20.00	to 25.00	.....	to 2.00
Adiantum	.....	to 1.00	1.00	to 1.25	1.00	to 2.00	1.50	to 2.00
Gladioli	10.00	to 15.00	5.00	to 8.00	.....	to 5.00	.....	to 12.00
Asparagus Plu. & Spreng. (100 Bhs.)	25.00	to 50.00	50.00	to 100.00	35.00	to 50.00	60.00	to 75.00

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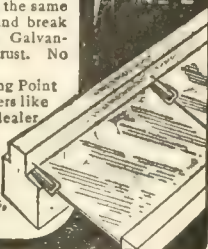
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of the small trees which flower here during the early days of May.

Malus theifera from central and western China is closely related to Hall's Crab. It is one of Wilson's introductions through seeds sent to Veitch in 1900 and in 1907 to the Arboretum where it is now twelve feet high. It has upright, spreading, rather zigzag branches which are densely studded with short spurs which bear numerous clusters of flowers rose-red in the bud, becoming pale and almost white when fully expanded. In central China the peasants collect the leaves and from them prepare the palatable beverage which they call red tea. From this fact the specific name is derived.

Malus floribunda, by many persons considered the most beautiful of Crabapples, was introduced into Holland by Von Siebold in 1853 from Nagasaki, Japan. The place where it grows wild still remains unknown, although probably it is one of the high mountains of Kyushu. Japanese botanists and nur-

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serymen confuse it with the Parkman Crab, and Wilson has not seen it in Japanese gardens. It is a broad, round-topped, treelike shrub sometimes twenty-five feet tall with stout branches and slender arching and pendent branchlets. The clustered flowers are white when fully expanded, rose-red in the bud, and as they open in succession the two colors make a beautiful contrast. The fruit is about the size of a pea, yellowish or yellowish brown; from some plants it falls in the early autumn, on others it remains on the branches during the winter or until devoured by birds who are particularly fond of it. Several plants with persistent fruit are growing close to the Administration Building in the Arboretum, and during the winter are filled with numerous species of birds, including pheasants who are fond of these Crabapples. A hybrid between *M. floribunda* and perhaps *M. cerasifera* appeared in the Arboretum among a lot of seedlings of *M. floribunda* in 1883 and has been named *M. Arnoldiana*. It has the habit and abundant flowers of *M. floribunda*, but the flow-

ers and fruit are nearly twice as large. It is a handsomer plant than *M. floribunda* and one of the most beautiful of the Crabapples in the Arboretum.

Malus Sieboldii is another of the species introduced from the gardens of Japan into Europe by Von Siebold in 1853. It is a low, dense shrub of spreading habit with the leaves on vigorous branchlets three-lobed, small flowers white tinged with rose in color, and small yellow fruits. A good specimen may be seen on the left hand side of the Forest Hills Road. Von Siebold's Crab is really a dwarf form of a species common on the Korean Island of Quelpaert, and on the mountains of central Japan and Hokkaido, to which the name var. *arborescens* has been given. This is a tree often thirty feet or more tall, with ascending, wide-spreading branches, twiggy branchlets and minute fruit yellow on some and red on other individuals. Although the flowers are small, they are produced in immense quantities, and this species has the advantage of flowering later than the other Asiatic Crabapples.

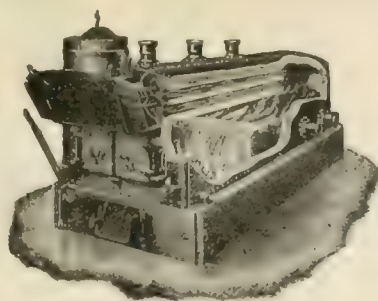
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No. 22

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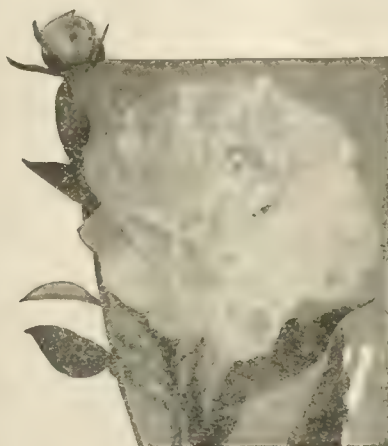
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LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....531	Childs, John.....512	Grakelow, Chas. H.....525	Marshall, W. E. & Co.....510	Randall Flower Shop.....525	Stearns Lumber Co., A. T.....528
Alexander, J. K.....512	Lewis.....512	Grey & Co., T. J.....510	Michell, H. F. Co.....521	Reed & Keller.....528	Stump, G. E. M.....524
Allen, J. K.....512	Clarke, D. Sons.....524	Gude Bros. Co.....524	Michigan Cut Flower Ex.....526	Reidel & Meyer.....528	Stump & Wal-ter.....510
American Bulb Co.....510	Coan, J. J.....528	Hart, Geo. B.....526	Murray, Samuel.....524	Reid, Edw.....526	
American Forestry Co.....512	Cooke, Geo. H.....524	Heistad, H.....511		Reuter, L. J. Co.....512	
Anderson, S. A.....525	Conard & Jones.....512	Hentz & Nash.....526		Rice & Co., Jerome B.....510	
Aphine Mfg. Co.....527	Cowee, W. J.....526	Hess & Swoboda.....525		Robinson, Henry M. Co.....526	Thorburn, J. M. & Co.....510
	Craig Co., Robt.....511	Hews & Co., A. H.....530		Robinson, H. M. & Co.....526	Totty, Chas. H.....512
	Danker.....524	Hill Co., E. G.....526	National Nurseryman.....512	Roehrs, J. Co.....512	
Barrows, H. H.....512	Dards.....524	Hill, D. Nursery Co.....512	New Eng. Florist Supply Co.....526	Roland, Thomas.....525	United Cut Flower Co.....526
Bay State Nursery series.....511	Dolansky & McDonald.....526	Howard, W. D.....512	N. Y. Botanical Gardens.....512	Ross, F. M.....525	Vincent, R. Jr. & Sons Co.....500
Bobbink & Atkins.....511	Dreer, H. A.....527	Johnston Bros.....510	Niessen Co., Leo.....526		Wants, For Sale, etc.....530
Boddington Co., Inc., A. T.....521	Dysart, R.....512		Nolan, T. J.....524	Sheridan, W. F.....528	Warburton.....524
Bolignano & Son.....510		Kasting, F. F. Co.....526		Siebrecht, Geo. C.....528	Weber, F. C.....525
Boston Floral Supply Co.....528	Edwards Folding Box Co.....526	Kelway & Son.....510	Palmer, W. J. & Son.....525	Siggers & Siggers.....531	Wilson Bros.....525
Breck, J. & Sons.....510	Elm City Nursery series.....512	Kervan Co.....527	Park Floral Co.....525	Skidelsky, S. S. & Co.....510	Woodmont Nursery series.....512
Breitmeyers, J. Sons.....524	Farquhar, R. & J. Co.....510	Kneble Bros.....525	Parshelsky Bros.....530	Smith, Elmer D. & Co.....512	Woodruff, S. D. & Sons.....510
Budlong, J. A.....526	Fengar, E. W.....511	Knoeschell Bros.....532	Penn the Florist.....524	Smith, W. & T. Nursery Co.....523	
Bunyard, A. T.....524	Ford, M. C.....527	Kuebler, W. H.....527	Pennock S. S. Co.....509	Smith, The Florist.....524	Young, A. L.....527
Burlington Willow Ware Co.....524	Ford, W. P.....528	Kottmiller.....524	Fino - Lyptol Chemical Co.....532	Smith & Fitters Co.....525	Young, John.....528
Burnett Bros.....510	Fromant, H. E.....528		Pierce Co., F. O.....530	Smyth, Wm. J.....525	
Burpee, W. A. & Co.....510		Lager & Hurrell.....512	Pierson, A. N.....509		Zeeh & Mann.....526
	Galvin, Thos. F.....525	Lemon Oil Co.....527	Pulverized Manure Co.....527		Zinn the Florist.....525
Carter's Tested Seeds, Inc.....510	Gasser Co., J. M.....525	Liggit, C. U.....511			
	Graham & Son, A.....525	McCarthy & Co., N. F.....512			
		McIntichison Co.....511			

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HORTICULTURE

Vol. XXIX

MAY 31, 1919

No. 22

THE GENTLE ART OF BEING ON THE JOB

A successful business man is the one who can keep about one lap ahead of the public in its likes and dislikes. This is perhaps just another way of saying that a good business man is the one who keeps his finger on the public pulse. It applies to the florist perhaps more directly than to men in many other lines of business. It means being alert to every tendency and quietly coaxing it along or giving it a gentle push in the right direction. Just as a case in point may be cited Henry Penn's Memorial Day appeal to the relatives and friends of the boys who served in the great war across the sea. Of course Mr. Penn had plenty of wreaths and other memorial emblems, but not satisfied with these he devised a special floral tribute particularly adapted to this year when the great war is just coming to a close and all the American people are hoping for a permanent peace.

The design was 36 inches tall and 30 inches wide. It took the form of a letter V, and bore the word "Peace." It was made of prepared leaves and water proof ornamental flowers arranged in an artistic way, the flowers not being put on so lavishly as to produce a garish effect. The design sold for \$12 up and naturally there was a big demand.

This is given simply as an example of the way in which enterprising, progressive florists meet special occasions. Of course it is only one of many such examples. The florist who is constantly on the job makes a point of thinking out something special for all unusual occasions. One of the good plans is to get out a well designed folder which can be distributed to a select list of customers. The writer remembers of one such folder issued by a Kansas City firm on Thanksgiving Day in which the beauties of chrysanthemums on the Thanksgiving day table were illustrated by colored pictures with appropriate descriptive text.

On such folders it is possible to recommend various combinations of flowers as gifts, at Christmas, New Years, Easter or on birthdays. Every good salesman knows how easy it is oftentimes to interest a customer in some plant or arrangement of plants which he had not thought of buying, but which appealed to him or her, as the case might be, when brought before the eye. What can be done in a personal way in the stores can also be done to a large extent by properly gotten up folders, the illustrations being of the greatest importance. A picture will often do much more than text alone.

Many a florist has increased his business to a surprising extent by his attention to window displays, not

only on holidays but on occasions of local importance. Several florists, for example, had windows which were heartily appreciated at the time the boys were coming back from France. The suggestion of flowers under such circumstances brought customers who would not otherwise have thought of buying.

There is no room here, of course, for a treatise on this general subject of getting and holding business. But there is no doubt of the fact that in these days of keen competition the florist who wins out is the one who is learning under the stimulus of new conditions the gentle art of always being on the job.

A Long Lilac Season

Beginning with the Chinese *Syringa pubescens*, and ending with that other Chinese species, *Syringa villosa*, or perhaps with the tree lilacs which come later still, the display may be carried over many weeks. *S. villosa* is

fairly well distributed. It makes a fine round-topped bush, and its late flowering habit adds much to its value. It should never be planted for its fragrance, though, for truth to tell, the odor is far from agreeable.

It is quite contrary with *S. pubescens*, this being one of the sweetest of all known lilacs. It is a tall shrub with small leaves, and short broad clusters of pale, lilac colored flowers. While not strikingly handsome, it is very highly valued for its early flowering habit as well as its pungent and delightful fragrance. Unfortunately it is not readily propagated, for it never produces seeds here and cuttings do not strike as easily as those from most other lilacs.

Among the other excellent lines which would seem well worth a place in gardens are *S. Lutece*, red violet; *S. Wolfii*, violet purple; *S. Waldeck Rousseau*, pink; *S. Toussaint Louverture*, red purple; *S. Maurice de Vilmorin*, lilac colored; Congo, dark red purple; *Macrotachya*, pale pink; *Marliensis pallida*, pale pink; *Justi*, pale blue; *Ludwig Spath*, red purple.

The Arboretum experts consider that the last named, with *Philemon*, which it much resembles, are the hand-somest lilacs with dark red purple flowers. Marie Le-graye still holds first rank as the best of the single white flowered lilacs. Some French white flowered lilacs have been introduced in recent years, but have not been grown in this country long enough for their value as garden plants to be determined.



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Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

There was never such a Memorial Day before. Never was the demand so insistent. Never did prices rule so high. The florists have worked hard. They are tired, but they are happy. And yet in the rush of trade, they have not overlooked the significance of the day. They realized the tinge of sadness it brought to many hearts and the feeling of warm patriotism which it inspired. It was a day hallowed by two wars. Returning soldiers by the thousands helped observe it. They appreciated what it meant. They have a keen remembrance of the days when death rode always close at hand and when life was what a 17-year-old member of the Prairie Division has depicted it in these lines:

Did you ever eat with your plate in your lap,
 With your cup on the ground at your side,
 While cooties and bugs of species untold
 Danced fox-trots over your hide?
 Did you ever sleep in a tent so small
 That your head and your feet played tag?
 Then shake, old man, you're a pal of ours,
 For you've followed the same old flag.

We have been wanting to write some sound editorial expression on the value of advertising, but while we were nibbling our pencil point and trying to get our ideas aflowing, a fellow by the name of E. F. McIntyre just went ahead and did the thing in rhyme, the Walt Mason kind. It was published in Brooklyn Life and about all we can do is to print it over again. So here it is:

There was an old geezer and he had a lot of sense. He started up a business on a dollar-eighty cents. The dollar for stock, and the eighty for an ad. brought him three lovely dollars a day, by dad!

Well he bought more goods and a little more space, and he played that system with a smile on his face. The

customers flocked to his two-by-four and soon he had to hustle for a regular store. Up on the square, where the people pass, he gobbled up a corner that was all plate glass. He fixed up the windows with the best that he had and told them about it in a half page ad.

He soon had 'em coming and he never, never quit and he wouldn't cut down on his ads. one jit. And he's kept things humping in the town ever since, and everybody calls him the merchant prince.

Some say it's luck, but that's all bunk—why, he was doing business when the times were punk.

People have to purchase and Geezer was wise—for he knew the way to get 'em was to advertise.

On another page there is a brief account of a Massachusetts florist who was victimized by a bad check artist. This sort of flim-flam game is being worked all over the country, and florists seem to be among the most likely victims. At least special attention is paid to them. Without doubt the florists need to reform their whole methods of extending credits. As it is now, anybody can enter the store of a retail florist and have flowers charged. Oftentimes collecting the money proves to be a difficult operation, and the number of instances where cash is paid on checks larger than the amount of the bill is much greater than might be commonly supposed. All too often these checks prove to be bad. Then the florist is out some real money, besides wasting a lot of time on floral pieces that cannot be delivered. This sort of thing must be remedied, and it is time for more concerted action in all of the large cities. It is claimed that florists have a larger proportion of bills which cannot be collected than business men of any other kind. It is amazing to learn how large in the aggregate losses from this source are. Some of the more progressive concerns are now putting special men on the job of revising their credits and trying to get this end of the business down to some sort of a workable system. Probably the employment of a first-class accountant at regular intervals, as suggested by Mr. F. H. Palmer in the article published by HORTICULTURE last week would help to clear up this matter. At any rate, florists must pay more attention to the credit end of their business unless they are fond of working for nothing.

The Lilacs

Apparently there is no diminution in the popularity of the lilac. It takes first place in public esteem while in bloom, and the newer varieties as well as some of the Chinese species are being sought for the adornment of large estates. Perhaps there is no better place in the world to make a study of these newer kinds than in the Arnold Arboretum, in Boston, for the collection there is remarkably complete. Of course all the lilacs shown are not in commerce as yet, but many of the better varieties are being propagated and sent out by nurserymen here and there. Much yet remains to be done in this direction, though.

It must be admitted, however, that the number of lilacs worth growing is not a very long one. One of the chief points to consider is the possibility of having a very long season by choosing kinds which flower at different times.

THE EVILS OF INDISCRIMINATE GRAFTING.

This morning I visited a most interesting garden and almost the first plant pointed out to me was a fair-sized specimen of *Viburnum Carlesii*, which on examination proved to be *V. Lantana*, i. e. stock. Shortly after the owner drew my attention to a purchased plant purporting to be the rare yellow-flowered American *Magnolia* (*M. cordata*). It proved to be in entirety *M. Vobus*, a Japanese species which had been used as stock. All who have to do with hardy ornamental plants of a woody character are familiar with the evils arising from indiscriminate grafting, and nurserymen the world over have much to answer for in this matter. I frankly admit that the art of grafting is a necessary part of the nurserymen's craft, but the mischief is that it is overdone. In all too many cases it is adopted because it is a rough and ready method of quickly producing plants of a salable size. In the case of the red-flowered Dogwood, many Roses, certain hybrid trees, double-flowered Cherries, Peaches, Wistarias and occasional sports which the desire is to perpetuate, grafting (or budding) is the best (in some cases the only) method of propagation. But when it is applied to all ordinary woody plants it is a most pernicious method. It is a few years since all our Lilacs were grafted on the Privet or on the common Lilac, but thanks to the fact that the gardening public are awakening to the resultant evils and disappointments the demand for Lilacs on their own roots is bringing about their general propagation by cuttings. It is now known that nearly every kind of decorative shrub and tree may be rooted from cuttings, and this is the proper mode of propagating them. A few of the more obstinate may be increased by layering. Species in the main come true from seeds and not nearly enough seedlings are raised, especially of such things as Pines, Firs, Spruces, Douglas Fir, *Kalmia*, Azaleas, native broadleaf *Rhododendrons*, Blueberries, *Cotoneasters* and the like. The objection usually made is that this method takes too long, but this is not always in accordance with the facts. Anyone visiting the Arnold Arboretum can see shrubs in variety from five to ten feet high and as much through grown in ten to twelve years from the sowing of the seeds; also

trees from fifteen to twenty feet tall of the same age. At half this age they were salable plants.

Again, where grafting (and budding) is necessary, as in the notable case of fruit trees, all too little attention is paid to stocks. In point of fact if there is one subject about which we are more ignorant than another in the science and practice of gardening it is that of the proper stock on which to "work," this or that. Those who grow Tree Peonies know the evil arising from the Japanese method of grafting them on the strong growing form with magenta flowers and have discovered that the satisfactory plants are those "worked" on the herbaceous peony. In Europe it has been found that on certain stocks certain plants may be grafted or budded, but it does not necessarily follow that these are always the best and especially for the American soils and climates. A systematic inquiry into the proper kinds of stocks is a pressing need and one that state colleges and other institutions where horticulture is taught ought to direct more of their energies. In the case of ornamentals nurserymen in general would assuredly do well to graft only the few which cannot be propagated otherwise and supply more and more kinds of plants on their own roots.

E. H. WILSON.

ATTLEBORO FLORIST VICTIMIZED

Howard W. Vose, florist of Attleboro, is looking for a stranger for whom he cashed a \$115 check, and is also on the search for some one who wants to purchase two large floral pieces valued at \$35.

Mr. Vose reported to the police that a man entered the store and ordered two floral pieces, one a large wreath of roses marked "Mother," and the other a piece of roses to be sent to 87 Emory street.

The man gave the name of Frank Moultrie. He returned a half hour later, saying that he had been informed at the bank here that if Mr. Vose would indorse his check for \$115, payment would be made. Mr. Vose did as requested and the stranger cashed it.

Later, when Mr. Vose went to deliver the flowers, he could find no such address as given. He was suspicious and reported to the police, who investigated at the Boston bank on which the check was drawn, and found that no such person as Frank Moultrie had an account there.

Mr. Vose figures his loss at \$150 plus the time he spent making up the floral pieces. The police have a description of the man—*Boston Herald*.

SHRUBS NOW BLOOMING AT THE ARBORETUM.

Attention is called to the plant of the Chinese Honeysuckle *Lonicera Syringatha* in the collection of Chinese Shrubs on Bussey Hill, which is now covered with its small colored and violet scented flowers which have not before been produced in such profusion. The arching stems, small leaves and fragrant flowers make this one of the most charming plants blooming this spring in the Arboretum. Many other Honeysuckles are flowering now in the Shrub Collection, and on the right-hand side of the Bussey Hill Road. Here is a good opportunity to see how Bush Honeysuckles of the Tartarian type and its hybrids can develop into great shapely bushes when they are allowed sufficient space in which to grow.

The earliest Rose to flower in the Arboretum this year is *R. Ecae*, a native of Afghanistan and Turkestan; it has erect stems, leaves with small, very lustrous leaflets, and pale yellow flowers not more than an inch in diameter. The first flowers of *R. Hugonis*, *R. omeiensis* and *R. cinnamomea* are also opening. *R. Hugonis* has not before in the Arboretum been so full of flower-buds, and to any one interested in roses will well repay a visit.

WHITEWASH FOR FLORISTS.

Florists in using a whitewash often desire one that will not rub or wash off readily. The following formula is said to furnish a whitewash of this character: Two pounds of ordinary glue is dissolved in seven pints of water. Then six ounces bichromate of potassium, already dissolved in a pint of hot water, is added. Stir the mixture well and add sufficient whitening to make of the usual consistency. Apply in the ordinary manner as quickly as possible.

This dries in a short time, and by the action of light is converted into a perfectly insoluble waterproof substance, which does not wash off even with hot water, and, at the same time, does not give rise to mould growth as whitewash made with size often does. It may be colored to any desired shade by the use of a small quantity of any aniline dye or powdered coloring matter. Once applied, it is said to last for years. The addition of a small proportion of calcic sulphite also increases its antiseptic power considerably.

NEWS AND COMMENT

PHILADELPHIA.

P. Joseph Lynch noted as a great rose grower in Pennsylvania and Indiana, and now a prominent statesman in the Hoosier county, has been in our midst for a few days—accompanied by the secretary of the governor of that great commonwealth. Mr. Lynch takes his latest honors very modestly and would rather talk of roses than of national affairs. He feels that we are just on the start of a new era of splendid development in horticultural pursuits and that all the wonderful feats in that line during the last fifty years will be as nothing compared with what the next ten years will accomplish.

James Killgallon, of the Pennock Co. ribbon dept., is back from France looking hale and hearty and about twelve pounds heavier. Many officers and men of his regiment were killed or wounded but the Good Preserver that looks after the destinies of mortal men had some other fate in store for our brave Jim and he is back among us once more without a scratch. To all these boys life must look a much more serious proposition now than it did when they went off as callow kids to face the Great Adventure. A year of such experience develops character quicker than ten times that time in ordinary life. So we raise our hats to them as man to man now, instead of in the old attitude of man to boy.

Douglas Earl, another of our war heroes is also back home again. We met him at 9th and Chestnut St. on the 24th. He had just been down to say howdy to his old friends at Dreers and was on his way to the ancestral castle at Doylestown where his mother and other members of the family reside. He traveled with his father in Europe about one week, and enjoyed it; but did not feel like going with him to South and Central America.

Recent visitors include the following: Will Redder, Wilmington, N. C.; Percy B. Rigby, S. S. Pennock Co., N. Y. City.

Samuel S. Pennock, ex-president of the American Rose Society, has a fine collection of roses at his home in Lansdowne. He reported in bloom, on May 23rd, Red Radiance, Daily Mail (Mme. Heriot), and Pauls Carmine Pillar. The earliest of all to bloom in his collection is Rosa hugonis, which comes in ahead even of Harrisons Yellow, and is already done blooming.

Mr. Pennock is also very proud just now of a fine specimen of English Hawthorne which is in full bloom and the delight of all beholders.

Those who wish to communicate with P. Joseph Lynch, chief clerk of the Supreme Court, State of Indiana, should address him at Room 17, State House, Indianapolis, Indiana. He is still head of the Heller Bros. Co., at New Castle, Ind., and the Dingle & Conard Co., West Grove, Pa., but the surest way to reach him promptly is at the address above noted.

If being a good politician means having one's ear close to what the community thinks—and acting accordingly—the Republicans who have now mounted the U. S. mustang, have an excellent opportunity to make themselves solid, by quashing quarantine 37, and dishing the Democrats. Have you got that—you fishers for a good bite? Brother Mann of Illinois thinks suffrage means something for his party. Nothing to it. The women will always vote just as their hubbies vote. Henry Cabot thinks he's got Woodrow on "the parliament of man, the federation of the world" which Tennyson dreamed of. Nothing to that either, for the Republicans. It will go through anyhow. But—dish the Democrats on quarantine 37. That's the slogan. There's an issue really worth putting up a fight for.

C. U. Liggitt has moved into larger offices in the Bulletin Bldg.—from 325 to 303. This evidence of prosperity for a new and enterprising concern is a pleasing indication to Mr. Liggitt's hosts of friends. Banking hours: as usual, 9 a. m. to 6 p. m. Business hours: "there aint no such animile," which means that Mr. Liggitt is on the job any hour of the day or night. The report is current around these parts that he never sleeps. And some of the doubting Thomases have their doubts about his going regularly to church on Sundays—where it is rumored folks go to sleep—occasionally.

John Walker of Youngstown, O., is located for the present with his brother at Linwood, Ocean Heights, N. J., and if any Hughey Dougherby wants to communicate and have a grin with him over old-timer from Shackamaxon street, in the seventies, from the soap business to the Isle of Pines in the present century, that's the place to reach him. Same old jolly. Ha, ha!

We met him recently in Philadelphia, and it was an enjoyable meeting.

G. C. WATSON.

MASSACHUSETTS.

The greenhouses and office formerly occupied by Macklin, Somerville avenue and White street, Cambridge, have been leased by Henry Curtis, a florist of Beverly. The premises are being renovated for his use.

Robert Groves, the fern dealer of Adams, is making extensive alterations on his property on Grove Hill. Mr. Groves recently bought two lots adjoining his property from the Waters estate and is having a new entrance way constructed by Contractor D. S. McGrath.

An automobile bearing a Maine number plate crashed into the rear of a wagon owned by the Casey Florist Company of Melrose. The wagon was overturned and the driver, Louis Harris, was thrown to the street but escaped uninjured and maintained control over the horse. The wagon was considerably damaged.

Last week the Boston florists contributed almost 100,000 carnations, American Beauty roses and bouquets of sweet peas to the Salvation Army drive. Volunteer flower girls sold them for the benefit of the army. The florists of the city subscribed to a fund which was turned over to the Salvation Army later in the week.

William Prince of Waverly will assume the duties as manager of the Hanover greenhouses June 1. ♪

AMERICAN SEED TRADE ASSOCIATION.

The thirty-seventh annual convention of the association will be held in Chicago, Ill., June 24-26, at the Hotel Sherman, the first session opening at 10 o'clock a. m. Reservations should be made as soon as possible on account of the number of other conventions.

Notice is hereby given of a proposed change in the by-laws, adding the following sections:

No appropriation of money shall be made from the treasury of the association until the sum to be expended has first been referred to the executive committee for their consideration and recommendation.

Proper provision and distribution of our badges requires as many names of those who expect to attend, as possible, in advance of the convention, so please fill out and return the inclosed card as soon as possible but by June 15th at the latest.

C. E. KENDEL, Secy.

"NEARING A CRISIS."

Editor HORTICULTURE:

Your editorial under the above far-fetched caption, and your but thinly veiled slurs on the head gardeners in the vicinity of Boston, is, to say the least, in exceedingly bad taste, and I am surprised at your attempt to misjudge the members of our profession. Your statement that the Massachusetts Horticultural Society is losing ground amongst flower lovers and the general public is a regrettable fact. The exhibition of May 17 came at a time when gardeners were rushed to the limit trying to accomplish a normal amount of work with depleted forces, and how many employers are there who would countenance or suggest them making an exhibit?

We have an excellent list of trustees, some of them owning large estates, others large florist establishments; not one of them made an exhibit even when appealed to as they were in some cases. Why not criticise them? Are you aware that there have been excellent exhibitions held in Boston within the past eighteen months which no member of this trustee board attended? That at a fine flower show only last February one member came out to see it?

I believe the trustees have an idea that one or two large shows a year should be held and the small ones all be eliminated. I do not accept your opinion that "there seems to be a very general feeling that it would be better to have fewer shows, etc.," on the contrary the present policy of the powers that be is largely the cause of the general apathy shown towards the society's shows. The cutting off of the summer exhibitions, once so strong a feature in Boston, is the best way to alienate the great army of amateur cultivators, for at these shows are to be found the plants, flowers, fruits and vegetables which they can grow, while at the larger and more imposing exhibitions only those possessing greenhouses are in the running, these being held in late fall, winter and spring when little or nothing from outdoors can be had.

The directors were warned last year that exhibitions would be very inferior with all premiums eliminated, and the small pittance allotted to flowerers this year, which by the way are all to be from outdoors, effectively curtails the the extent of such an exhibition as the one referred to in your editorial.

The policy of the Massachusetts Horticultural Society in holding ten to fourteen exhibitions yearly all through the Civil War period made its hold

still stronger on the general public and I cannot but think that the course adopted during the European War compares not unfavorably with that of over half a century ago.

You state that a "conciliatory attitude" is desirable to bring about "harmonious relations." I am unaware of any who are nursing "grouches;" personally I have never been averse to stating where I stand, and the society's interests are and have been very near and dear to my heart. You are exaggerating conditions as they are, but your criticism unjust and biased as it appears to be, will not have been in vain if it shows the necessity of a more "conciliatory attitude" between the officials of the society and its members, and a return to the old democratic policies which made it strong and respected years ago, and I would parallel your query "Have the head gardeners of estates around Boston deliberately determined to boycott these shows?" with another one; "Have the trustees and other estate owners, around Boston deliberately determined to boycott these shows?"

What I would like to see and what we ought to have is one or two meetings a year when the society and its policies can be discussed from all angles, in a calm and dispassionate manner by the membership at large. Such get-together gatherings would clear away the miasma of aloofness and suspicion which unfortunately exist today, and with a more harmonious feeling better exhibitions would come as surely as light follows darkness.

W. N. CRAIG.

Faulkner Farm, Brookline, Mass.

NASSAU HORTICULTURAL SOCIETY.

There was an unusually large attendance at the regular monthly meeting of the Nassau County Horticultural Society, held at Pembroke Hall on Wednesday evening, Vice-President Frank Watson, presiding.

Thomas Richardson was elected an active member and six petitions for membership were received.

Decision was reached to hold a rose show some time during the month of June, and all arrangements are left in the hands of the executive committee.

A tulip show was held in connection with the meeting and a fine collection of buds were on the tables. The Darwins were exceptionally fine, considering the inclement weather.

The next meeting of the society will be held on Wednesday, June 11, at 7 o'clock in the evening. There will be

a competition for twenty-four pods of peas, twelve best strawberries and the best vase of outdoor flowers, not an annual or a shrub.

HARRY GOODWIN, Cor. Sec.

HOW BOSTON FLORISTS AIDED THE SALVATION ARMY.

Three thousand dollars' worth of cut flowers, representing many varieties and all contributed by Boston florists for the benefit of the Home Service Fund, were auctioned off around "Belleau Wood" (formerly Liberty Court) on Boston Common last week, the sale lasting several hours.

Benjamin Jacobs of the advertising department of the Boston Post served as auctioneer and his first sale brought in \$50 in cash. This sale was a cluster of American Beauty roses and the purchaser was Mrs. Edwin A. Shuman. Later another bunch brought a similar amount and there were a number of sales at \$20, \$10 and \$5. Hundreds of lots were disposed of at from a quarter dollar up to the \$5 figure. About 10,000 flowers were donated and their value at retail prices was \$3,000.

COMING MEETINGS.

Chicago.—American Seed Trade Association, annual convention, June 24 to 26. Secretary, C. E. Kendell, 216 Prospect Ave., Cleveland, O.

Chicago.—American Association of Nurserymen, convention, Hotel Sherman, Chicago, June 25-26-27. Charles Sizemore, Louisiana, Mo., Secretary.

Detroit, Mich.—S. A. F. and O. H. Convention at Acadia Hall, Aug. 19, 20, and 21. Secretary, John Young, 1170 Broadway, N. Y. City.

Hartford, Conn.—Conn. Hort. Society, fall flower show, Sept. 9, 10 and 11. Secretary, Alfred Dixon, Wethersfield, Conn.

New York City.—The American Institute and the American Dahlia Society, exhibition of dahlias in the Engineering Building, 25-33 West 39th St., Sept. 23 to 25. William A. Eagleson, 322-324 West 23rd St., Secretary.

San Francisco, Cal.—Dahlia Society of California, Fall show at the Palace Hotel, Sept. 4, 5 and 6.

Toronto, Can.—Canadian Hort. Ass'n convention, Aug. 12, 13, 14 and 15.

PATENTS GRANTED.

1,303,264. Seed-planter. Harry S. Dickinson, Moline, Ill., assignor to Moline Plow Co., a corporation of Illinois.

1,303,427. Wheel Plow. Benjamin B. Wallace, Poughkeepsie, N. Y., assignor to Moline Plow Co. a corporation of Illinois.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

We are entering June with less than one-half of our required fund of \$100,000 subscribed. It is quite obvious that we must speed up the campaign. Are our clubs and other organizations doing as much as they might? Why cannot they put on a "publicity night" occasionally, and thus arouse a local interest in the campaign. Any club, or organization that is willing to do this, can have the assistance of our committees, who, out of their membership, will supply speakers who can intelligently present the subject and meet any discussion. All that is necessary to do is to notify the secretary of the requirement, and the speakers will be forthcoming. There are sixty or more organizations of florists in the country, but few only have, so far, made a push for the campaign fund through a "publicity night."

We ought by this time to be a long way towards our goal. Thousands of florists throughout the country have, as yet, given the fund no support whatever. As a subscriber said the other day, "What must be the feelings of those who have not subscribed when they see our superb advertisements in the magazines. They must, indeed, be hard shelled if they do not immediately send a contribution to the secretary. They know that certain of their trade brethren are providing the campaign ammunition, and they should be proud, rather than otherwise, to contribute.

As has been said scores of times, the money collected is wholly expended for publicity for flowers. As fast as sufficient is collected for a magazine crusade, one is planned and put into execution. But we should keep continually at it, there should be no lulls. It is just as important that our slogan "Say it with Flowers" be seen everywhere in summer time as in winter. People have birthdays every day; it is estimated that there are daily about 20,000 in a city like New York, and, naturally, they occur in summer as well as at any other time.

Our committees have prepared a plan of campaign for the summer, and are putting it into execution. We have to place our magazine advertisements well ahead of publication dates, consequently the committees sometimes are called upon to anticipate income. This is not fair to them, but, Mr. Non-subscriber, you are at fault for this condition. Of course, you know that

you intend to make a contribution, and would do it in a minute if you received a personal call for it. Will you not dispense with the necessity for this, and send to the secretary forthwith whatever you wish to contribute. If you would first like to see a list of subscribers, one will be sent to you upon request.

Subscriptions Received

The following subscriptions have been received and are in addition to those previously announced, annually for four years, unless otherwise stated:

William Hied, Mobridge, S. D.....	\$25.00
Owasso Floral Co., Owasso, Mich. (1 yr.)	25.00
Goodbrad Floral Co., Mobile, Ia. (Add. Sub.)	5.00
E. C. Marshall, Kennett Sq., Pa.....	5.00
W. G. Perrine, Berkeley, Calif.....	2.50
Dayton Floral Co., Dayton, O. (1 yr.)	50.00
R. H. Brackney, Three Forks, Mont. (1 yr.)	5.00
John A. Koelker, Toledo, O.....	5.00
Baumgarten Florist, Milwaukee, Wis. (Add. Sub.)	10.00
Greenwood Carnation Co., No. Milwaukee, Wis. (1 yr.)	50.00
Andrew Christensen, Stoneham, Mass. (Add. Sub.)	5.00
R. L. Isherwood, Chillicothe, Mo....	10.00

The Following Were Received by L. J. Reuter

B. A. Snyder, Boston, Mass.....	\$50.00
A. M. Davenport, Watertown, Mass....	20.00
N. E. Florists' Supply Co., Boston, Mass.....	25.00
Aubrey Pembroke, Beverly, Mass. (Add. Sub.)	15.00
	\$307.50
Previously reported.....	\$36,243.00
Total	\$36,550.50

JOHN YOUNG, Secy.

1170 Broadway, New York.

May 24, 1919.

LANSDOWNE FLOWER SHOW.

The Tenth Annual Flower Show of The Lansdowne F. S. A. will be held in the auditorium of the 20th Century Club at Lansdowne on Saturday, June 7th, 4 to 10 p. m. Admission free. Prizes are offered in 55 classes of roses, 15 classes of peonies, 46 classes of hardy garden flowers, 4 classes orchids and 11 classes miscellaneous. There are 14 classes for vegetables and fruits and 6 classes for children under 15 years of age. Altogether a very interesting proposition, and it shows why this Lansdowne affair has become one of the leading local events in this community. Prize schedules can be obtained by addressing C. Wilfred Conard, secretary, Lansdowne, Delaware Co., Pa.

EVERGREENS AT BARGAIN PRICES

Not for years if ever will there be another opportunity, probably, to buy evergreens so cheaply as at the present time. A great amount of Dutch stock has been sent to this country and is now in the market. The Montrose Nurseries, recently established in connection with the Montrose Greenhouses, at Wakefield, Mass., has a wonderful collection of material from across the water which is being sold at bargain prices because of the fact that it came in too late to be disposed of when the market was at its best. The nurserymen do not like to carry over so large an amount of evergreens, and for that reason extra inducements are being offered. There would seem to be an usual opportunity for public parks as well as large private estates to make liberal purchases. While planting of this sort has not been done very freely during the last few years, many plans are being laid for the increased use of evergreens in the near future. The owners of the Montrose Nurseries say that they will be very glad to have people go out to see the plants in the fields, even if they are not in the mood to buy. They make a fine showing. There is one whole field devoted to Parsons' rhododendrons. Another field is filled with evergreens of every description. The Montrose Nurseries may be reached by trolley from Wakefield, or by train, stopping at the Montrose station.

NEW YORK STATE.

The Rev. Edmund M. Mills, president of the Syracuse Rose Club, has been invited to aid in the organization of a rose show at Rochester for the purpose of promoting intercourse and discussion between rose growers and helping them to correctly name and identify their roses and to discover those best adapted for growing in this country.

NEW ENGLAND.

Ground has been broken for a new greenhouse to be built by Mr. I. S. Hopkins, a florist of New Haven, Conn.

Miss Beatrice Tower has resigned her position as stenographer at the Bay State nurseries, North Abington, Mass.

ROCHESTER.

In an effort to stimulate interest in rose growing, also promoting intercourse and discussion between rose growers and helping them to correctly name and identify their roses, also those best adapted for growing in Rochester and vicinity, a meeting was held May 23rd with Chas. H. Vick, chairman. Rev. Edmund M. Mills, president of the Syracuse Rose Club, gave an illustrated lecture on Rose Gardens, Rosarians and Roses on the Coast. The following rose growers are interested in the formation of a Rochester Rose Club; Campbell Baird, Wm. D. Ellwanger, Frederick Barry, Park Supt. Calvin C. Laney, Mrs. Samuel P. Moore, Mrs. F. A. Whittle, C. B. Ogston, and Chas. H. Vick.

Alberts, the Florist, is showing some very fine dahlias.

There is not much change for the past week in market conditions. Roses of good quality are plentiful and carnations are meeting the demand. Sweet peas are in abundance and clear easily at low figures. Snapdragon, Spanish Iris, Delphinium, Baby Gladioli are good sellers and a few good Darwin tulips are seen. Candytuft, mignonette, calendulas and Easter lilies are plentiful and of good quality.

NEW YORK.

A most attractive floral display is now being shown at Bloomingdale's Cut Flower Department. Manager Warendorff has quite a novel idea. The window is all decorated in dogwood, and a bride and bridesmaid are shown walking back and forth with various bouquets. The models are alive and very attractive, and the bouquets are of artificial flowers, showing the range in price to be made up in natural flowers. It is the talk of the neighborhood and well deserves it.

HORTICULTURAL SOCIETY OF NEW YORK.

There will be an exhibition of flowers by this society on June 7th and 8th in the Museum Building, New York Botanical Garden. Premiums are offered for peonies, roses, flowering shrubs and trees, and herbaceous plants. Schedules are now ready for distribution, and will be sent on application to the secretary, George V. Nash, New York Botanical Garden, Bronx Park, N. Y. City.

GEORGE V. NASH, Secy.

OBITUARY.**Elmer S. Norris.**

Elmer S. Norris, a florist of Round Lake, N. Y., died suddenly last week. He was born in East Schodack, Rensselaer county, in the family homestead, forty-seven years ago. He was a teacher in that locality for about ten years. Four years ago he purchased the Peterson greenhouses on the west side, Round Lake, and had continued the business until his death.

He is survived by his wife and one sister, Mrs. Ira Sagendorf of West Sand Lake.

Alexander B. Lamberton.

Alexander B. Laberton, former president of the old Park Board of Rochester, and later park commissioner, died May 24, aged 80 years. Although he had been in failing health, his death was a shock to his many friends. Mr. Lamberton was born in Ireland but came to this country as an infant and acquired his early education in the New York public schools. He later studied at the University of Rochester and in Auburn Theological Seminary. He was appointed a member of the Rochester Park Commission in 1894, and was elected president in 1902. The position paid no salary, but Mr. Lamberton devoted practically all his time, giving the city the benefit of his extensive experience. On June 11, 1910, there were unveiled two handsome medallions of the two presidents of the Rochester Park Commission in Genesee Valley Park, the late Dr. E. M. Moore and Alexander B. Lamberton. These memorials form a permanent record of the great service done by the two men most instrumental in providing Rochester with the finest park system of any city of its size in the United States.

CHICAGO.

The amount of stock which came into this market the past week was larger than could be handled to advantage by the local trade, and shipping orders, large though were, could not move all that the daily shipments placed in the hands of the wholesalers. The result was that the week end found great concessions in prices, which cleaned the counters of roses and some kinds of miscellaneous flowers. Many growers have their roses almost off crop, and the supply of these flowers for the big day just ahead is not likely to be nearly large enough to meet the demand, and the shortage will equal that of Mothers' Day. The bright weather has hurried on the

crop of carnations also, so the supply of these will be wholly inadequate to the orders now in. This makes miscellaneous stock of especial importance and it is much to be regretted that the dry summer of last year and the late frosts of this spring have together reduced the crop of peonies one-half. Sweet peas promise to be abundant and the quality is good. Quantities of lilacs are now coming and seem to sell readily. There is a good showing of snapdragons and tulips and a fair supply of lilies, while the smaller flowers like daisies, pansies, sweet alysum, etc., are seen in large quantities in many of the stores. The homecoming of the 33rd or Prairie Division on Tuesday is to be celebrated with a lavish use of flowers, which will clear the market and while it will tend to further reduce the supply for Memorial Day it will leave the freshest cuts for the buyers for that day.

BOSTON.

Boston market conditions were excellent all the week, most of the stock selling easily. Carnations and roses were in great demand and the market was cleaned up. About the only flowers which were in over abundance and not in demand are single stocks. They were hard to sell. Darwin tulip have been the best outside offerings. Some lilacs have been seen but did not sell well and dealers discouraged the sending of them in.

Last Saturday the members of the North Shore Horticultural Society visited the Arnold Arboretum. They drove to Boston in twelve automobiles and were shown about the grounds by Mr. Judd of the Arboretum staff.

The members of the Gardeners' and Florists' Club of Boston visited Faulkner Farm, Wednesday afternoon, at the invitation of the Superintendent, W. N. Craig, and were greatly pleased with the gardens, especially the rock gardens. Mr. Craig has been particularly happy on his selection of plants and their general arrangement. No little enthusiasm was exhibited over the handsome appearance of these gardens. Mr. Craig has made a wide reputation for his knowledge of plants and his skillful use of them. It was a great pleasure to inspect the grounds over which he has supervision.

Mr. William Anderson of the Bayard Thayer estate at So. Lancaster has been undergoing treatment at the Brooks' Hospital in Brookline for a few days. His illness is not serious and he expects to be back home the first of the coming week, which will be good news to his many friends.

THE GARDENERS' SECTION

MEETINGS OF NEWPORT GARDENERS.

William MacKay of Newport, R. I., a visitor at the gardeners' conference in Boston, reported that the members of the National Association of Gardeners, residing in the vicinity of Newport, meet regularly once a month. A chairman and secretary have been appointed and the activities of their meetings are reported to the secretary of the national organization. He believed that similar action by members of other communities would materially aid the co-operative movement between the national association and the members at large.

It was recommended that the National Association at the annual convention should adopt some plans which would provide recognition for local branches such as the Newport movement.

THOMAS J. GREY WRITES FROM CALIFORNIA.

South Pasadena, Cal.,

May 13, 1919.

Dear Friends:—

Here we are at last, feeling fine after our running around the country. This is a beautiful country with everything in bloom. The roses are beyond description and all other plants, flowers and shrubs fully as good. Sweet peas do wonderfully well here.

Things are as high or perhaps a little higher than in Boston. I have attended their Spring Flower Show and it was grand. A number of things are new to me. The rose show was good but small compared to Boston's show. There were but few exhibitors, so the competition was not very sharp.

Mr. William Shields, an old gardener friend of mine, formerly with Thomas W. Lawson, of Egypt, found me at Hotel Rosslyn in Los Angeles. Nothing would do him but I must come to Pasadena with him and stop with him until I found a suitable place. The same day we found just what we wanted, so we are nicely situated. A few days later, he and his wife and Mrs. Grey and myself went in his car to Santa Barbara, 115 miles, to see Billy Donald, Frank McDermott and Percy Vincent, all Boston gardeners. They have fine positions here. They wanted me to stop with them all summer.

The road from Pasadena to Santa Barbara is the finest I ever drove over, and the view on all sides beautiful.



Mr. Grey Among the Sweet Peas

Mountains hundreds of feet high, ocean and valley are enchanting. There are orange, lemon, grape fruit, walnut and olive groves, thousands of acres in a rich valley in a high state of cultivation. You will find enclosed a snapshot taken by Mr. Shields, standing by a bank of sweet peas running up a tennis court fence, taken April 19th. The day before there were sixty bunches of fifty each cut off. They were the finest I ever saw. I often think of you and Boston. After all, it is God's country. We are having much foggy weather, nights and mornings, although the days are bright, sunny and warm. Love to all.

Yours truly,

THOMAS J. GREY.

THE LOGANBERRY IN MASSACHUSETTS.

The Loganberry was at first thought to be a cross between a raspberry and a blackberry as it has the characteristics of both these vines, but as wild varieties of the Loganberry have been found on our Pacific coasts it is now known to be a distant species. We have grown it for several years at Hillcrest Farm.

The Loganberry is a hard vine to winter as it requires careful covering. After the extreme colds of the winters of 1917 and 1918 we had little fruits from it but the vines lived. We cov-

ered them with the soil, bending them under it as we do with our raspberries.

Through the summer we have to tie the vines of the Loganberry carefully to wires stretched between cedar-posts, for otherwise they sprawl badly over the land. These posts are five feet high and near enough together to keep the wires taut. The vines grow between two rows of them.

The Loganberry multiplies from canes growing from its roots. It does not sucker like the blackberry nor grow from the tips of its branches rooting into the soil like a black raspberry.

To renew the vine the roots should be taken up and separated like the roots of most perennials broken apart. Care should of course be taken to see that each portion of the vine to be reset has a good root starting to grow. We believe that the Loganberry can also be propagated from cuttings—a method which we have not had occasion to try.

The berry is rather coarse to be used for a desert at the table, but it makes a good preserve. It is picked with its core like a strawberry or blackberry instead of with the hallow crown of the raspberry. A bit of the stem comes off the vine in picking the berry as it does with the strawberry.

If one has plenty of room in one's garden the Loganberry is worth growing as a new variety. Some people especially enjoy its flavor. We continue to cultivate it at Hillcrest.

M. R. CASE,

Hillcrest Farm, Weston, Mass.

THE SUBURBANITE.

It was the busy hour of four,
When from a horticultural store
Emerged a gentleman, who bore—

- 1 hoe
- 1 spade
- 1 wheelbarrow.

From thence our hero promptly went
Into a seed establishment,

And for these things his money spent—

- 1 box of bulbs
- 1 lot of shrubs
- 1 package of assorted seeds

He has a garden under way,
And, if he's fairly lucky, say,

He'll have about the end of May—

- 1 nasturtium
- 1 radish
- 1 pot of mignonette.

—Cartoons Magazine.

REPORT OF THE COMMITTEE TO VISIT THE ARNOLD ARBORETUM.

To the Board of Overseers of Harvard College:—

Your Committee appointed to visit the Arnold Arboretum has the honor to render its report.

Founded in 1847, the Arboretum, which has been managed with intelligence, energy and economy, has established a world wide reputation and attained an influence which is remarkable when it is remembered that it is the work of one generation and that it is still controlled by the man to whom it was first entrusted by the Corporation. The \$100,000 given to the University by the trustees under the will of James Arnold of New Bedford to establish an Arboretum has been increased by the generosity of friends to more than \$700,000, and in addition to the income of this endowment between twelve and thirteen hundred thousand dollars, including the money contributed by the City of Boston, have been spent in the establishment and scientific activities of this department of the University.

To Mr. Arnold's trustees an arboretum was a collection of trees able to support the climate of eastern Massachusetts and they probably did not realize that their gift was to make possible in less than fifty years a scientific establishment with few rivals in its particular field and one of the best known departments and chief ornaments of the University. The collection of trees and shrubs arranged for convenient study in its outdoor museum is already the most important in America. The Arboretum is equipped with a library of forty thousand books and pamphlets and a herbarium of nearly two hundred thousand specimens. By its explorations, principally in North America and eastern Asia, undertaken for the discovery and introduction of unknown plants, it has increased the knowledge of trees and introduced into the gardens and parks of the United States a large number of trees and shrubs before unknown in them. We are told that the collections which the Arboretum has brought together make it the best place in which to study better facilities for the scientific study of trees that can now be found in America.

As a museum the ground occupied

by the collections is already too crowded, and large additions of land will be needed for it in the near future for the proper display of the new trees which are constantly discovered or may be created by the art of the hybridiser. A larger endowment is needed now and much more money will be needed from time to time in the future if the Arboretum is to meet the increasing demands which are made on it.

The Arboretum is national in the scope of its work. It has been as active and successful, for example, in supplying new trees and information about them to planters in Illinois or California as in its efforts to improve the parks and gardens of New England. It is fair, therefore, that financial support for it should be as national as its activities. Your Committee feels, therefore, that it is its duty to appeal to persons interested in trees in all parts of the country to help it improve this department of the University and to increase its usefulness.

An immediate and pressing need of the Arboretum is the land, about sixteen acres in extent, between South Street, Jamaica Plain, and the Dedham Branch of the N. Y., N. H. & H. Railroad, the property of the President and Fellows of the University. This land is needed by the Arboretum for its large collection of poplar and willow trees for which it has now no proper or suitable location. Poplar trees are valuable, for they are the only trees of large size which can be successfully grown over thousands of square miles in the drier regions of the United States. Opportunity should be found in the Arboretum to study these trees growing under the most favorable conditions. Many willows are important trees and all willows are of particular interest to students of trees and shrubs.

The present condition of the collection of poplars and willows is not a credit to the Arboretum. These sixteen acres of land which are perfectly suited for these collections are not used by the University. A large part of it is low meadow without drainage, unsuited for agricultural experiments or for a garden.

This is not the first time your Committee has called your attention to the importance of this land for the Arboretum, and through some of its members it has made various efforts to obtain the consent of the Corporation for its use by the Arboretum. It takes this opportunity to express again its belief

MICHELL'S PRIMULA SEED

PRIMULA CHINENSIS

(Chinese Primrose)

	1/2 tr. pkt.	tr. pkt.
MicHELL's Prize Mixture. An even blending of all colors.	\$0.60	\$1.00
Alba Magnifica. White.....	.60	1.00
Chiswick Red. Bright red..	.60	1.00
Duchess. White, with zone of rosy carmine, yellow eye.	.60	1.00
Holborn Blue.....	.60	1.00
Kermesina Splendens. Crim-son .....	.60	1.00
Rosy Morn. Pink.....	.60	1.00

PRIMULA OBCONICA GIGANTEA

A great improvement over the old type, flowers much larger	tr. pkt.
Lilacina. Pale lilac.....	\$0.50
Kermesina. Deep crimson.....	.50
Rosea. Pink .....	.50
Alba. White .....	.50

ASPARAGUS PLUMOSUS NANUS

Northern Greenhouse Grown Seed

1,000 seeds..	\$3.00	10,000 seeds..	\$25.00
5,000 seeds..	13.75	25,000 seeds..	56.25

HENRY F. MICHELL CO.

518 Market St., PHILADELPHIA, PA.

SEEDS AND BULBS

Boddington's

128 Chambers St., N. Y. City

that the best interests of the University will be served by devoting it to the uses of the Arboretum.

WILLIAM A. GASTON,
WALTER HUNNEWELL,
CHARLES E. STRATTON,
MRS. LOUIS A. FROTHINGHAM,
JOHN LOWELL,
JOHN E. THAYER,
FRANK G. WEBSTER,
CHARLES A. STONE,
WILLIAM C. ENDICOTT,
THEODORE A. HAVEMEYER,
CHARLES L. HUTCHINSON,
RICHARD T. CRANE, JR.,
HENRY F. DU PONT.

January 13, 1919.

ENTERS FERN BUSINESS.

It is understood that George Dugan, formerly a clerk at the American Express office in Adams but more recently of Cheshire, has leased the large farm on the Jenks property on Center street. It is reported that Mr. Dugan contemplates entering the fern business and that he will use the large barn for storage and sorting purposes. He will be the second to engage in the fern business in this town. Robert Groves of Commercial street, having conducted such an enterprise for many years past.—Adams Transcript.

RAMBLING OBSERVATIONS OF A ROVING GARDENER

There is evidence which leads to the belief that the forestry associations of the country have been quietly working in favor of the quarantine No. 37. This probably means that the influence of wealthy men who are largely backing these associations has been quietly exerted to stiffen the backbone of the Federal Horticultural Board. The secretary of the Massachusetts Forestry Association makes no secret of the efforts which he has made to have this quarantine established and retained. These men are looking at the matter from a one sided viewpoint. They talk grimly about the ravages to forest lands done by gypsy moths, brown tail moths and similar pests, and express the belief that the new ruling will protect the country from anything of that sort in the future. How futile such reasoning is was well indicated by Mr. E. H. Wilson's comments in *HORTICULTURE* a few weeks ago.

Truth to tell there are many people in the country who are wondering at some of the activities of leading members of the Forestry Association. Particular reference is made to Mr. Charles Lathrop Pack, president of the American Forestry Association, and also at the head of the amateur garden propaganda which has been carried on the last two years on an unprecedented scale. Never before has so much money been spent in a movement of this kind. Much of this money has been squandered, for a tremendous flood of literature has been sent broadcast throughout the country, two or three duplicates having often come to my desk. At the very time when the country was faced with a serious shortage in paper, pamphlets and circulars were being distributed in the most prodigal way. Now there is no doubt that the efforts of Mr. Pack and his associates had a tremendous influence in bringing about the making of amateur gardens. Probably they are safe in saying that what they did added immensely to the country's food products. It is a serious reflection, too, on the agricultural department at Washington, that an outside organization was able to step in and monopolize this work. It should have been done through the regularly constituted channels, and when it was too late the department tried to break into the game. The result was wasteful

competition, reports and leaflets covering the same ground being sent out by both Mr. Pack's association and the National Government. All this leads to the question as to what Mr. Pack is seeking. He claims that his motives are purely philanthropic and he may be honest in this. If that is so, he has broken all records in the use of money for building up an enthusiasm for gardening.

As I travel about I find but little improvement in the labor situation as it applies to estates. Only a few of the large places have opened all their greenhouses, or have brought their grounds back to the condition which existed before the war. Labor can be obtained, but the wages asked are so high that estate owners refuse to pay them. Naturally new men cannot be taken on at a higher wage than those already on the place. In some cases the amounts asked would give a second man more money than the superintendent. It can hardly be expected that the situation will be fully adjusted until there comes a change in industrial conditions. Gradually the lure of the shop and the factory will pass. The men with whom a love of gardening is inborn will be getting back to the land. It is reasonable to believe, though, that the new wage level will be higher than the old.

As was stated at a recent gardeners' meeting, there is a feeling among the better class of gardeners that the craft in this country should cut loose entirely from old world traditions. Americanization of garden work has not yet been wholly completed. Many gardeners are too dependent upon their employers for full freedom of thought or action. There should be a system in America by which the estate superintendent or head gardener is paid enough money so that he can foot his own bills and not be dependent upon the man who hires him when he wants to take a pleasure trip or use funds in any other way in which a man in other trades might expect to defray his own expenses.

The lilacs have been the great attraction in the Arnold Arboretum in Boston and many of the public parks, especially Highland park at Rochester, N. Y., where one of the finest collections in the world has been assembled. Many of the newer varieties

are very handsome, but it is a noticeable fact that they often lack the fragrance of the older kinds. Amateurs find this a distinct disadvantage, for the perfume of the lilac is to them one of its chief charms. Unfortunately, the greater the extent to which any plant is refined, the less likely is it to retain its perfume. This is demonstrated with the various forms of the *Philadelphus*. The scent of the old fashioned mock orange hangs heavy throughout the garden on a warm day but some of the handsomest of the new large flowered varieties have almost no perfume at all. It is coming to be a question in choosing such shrubs as to whether we desire to please the eyes exclusively or to appeal to the sense of smell as well.

After viewing and smelling the honeysuckle known as *Lonicera syringantha*, both in the Arnold Arboretum, where there are large specimens and in my own garden where there is a small plant, I am led to wonder why this shrub is not grown more extensively. It is not a new thing, in the sense of being recently introduced. It has had a place in the Arboretum for many years. Like most of the honeysuckles, it makes an attractive plant all summer, and while its flowers which come at this season, are by no means showy, they are neat and pretty and the odor is a delight. Its character may be judged by the name which the plant bears. It might be interesting to work out a list of shrubs which will carry a strong perfume right through the season. Doubtless it should be headed by *Viburnum Carlesii* and *Lonicera syringantha* should have second place.

PEONY GROWERS PROTEST.

At their last meeting the members of the American Peony Society adopted a protest against Quarantine Regulation No. 37. The protest now appears in published form and is being distributed. The following paragraph is particularly interesting:

A careful reading of the regulations and the literature that has grown up around it, reveals the fact that the board has lacked a sound and general idea from which to proceed. It appears that at the time of the public hearing in May, 1918, it was intended only, or mainly, to exclude plants shipped with earth on their roots. The underlying theory then apparently was that it was in the earth that insects and other pests were most likely to be brought to the country. The board should at that time have been clear as to weather the danger lay chiefly

in the plants themselves or in the earth about their roots; and apparently the board had indeed decided that the worst danger lay in the earth and not in the plants. Unfortunately the board does not seem to be very well informed as to what groups of plants are imported with earth on their roots and what are not. This is illustrated for instance by the allusion in a communication from the chairman to "peonies together with all other plants with earth," whereas peonies are generally washed free from all earth before shipping, and there is no reason why they should not always be shipped quite free from earth.

Other equally interesting extracts follow:

The choice of the few plants and bulbs selected for admission when considered side by side with similar ones that are excluded only awakens a sense of wonder as to what were the considerations which dictated the selection; and the statement issued by the board in defense of its action does not make the mystery any less.

It is to be said that such a sacrifice of horticultural interests could only be justified—if at all—on the ground that the protection afforded by the measure was reasonably near to being complete. But no measure that could be framed would guarantee protection against the introduction of pests. Every boat that brings a cargo to one of our ports, which the board considers innocent, still brings material in which pests of one sort or another may be hidden—in fruits, even if it does not carry a shipment of the particular plants in packing, in hemp, in ballast, in the very vessel itself. It is to be noted that the quarantine specifically provides that "fruits, vegetables, cereals and other plant products for or capable of propagation, intended for medicinal, food, or manufacturing purposes * * * may be imported without permit or other restrictions." It is very much open to question whether the dangers from these sources may not be quite as serious as those from shipments of well washed roots of peonies or other perennials and indeed in the case of imported vegetables, a good deal more so.

Furthermore, the countries to the north and south of us, having no such quarantine in force, would easily provide a way for the introduction of pests. It would seem almost futile to enact so stringent a regulation unless the co-operation of the Canadian Government could be secured for similar regulations in Canada.

It comes, therefore, to this, that the

horticultural interests and the gardening public are to be required to pay a high price for an immunity which is not a real immunity.

AMERICAN PEONY SOCIETY.

The seventeenth annual meeting and exhibition of the American Peony Society will be held in the Board of Commerce Building, Wayne and Lafayette Boulevard, Detroit, Michigan, June 17-18 next. This exhibition will be managed by the Detroit Florist Club as a result of a meeting of some of the members at Detroit May 21 and the approval of the officers of the society who were unable to be present.

This announcement is made in advance of the premium list which will soon be sent to the members and growers who are requested to make preparations to send flowers for competition and exhibition. Members of the Peony Society are especially requested to urge growers in their immediate vicinity to attend this meeting if possible and also to make an exhibit of blooms in competition or otherwise. Those who cannot come with their flowers, and all shippers may ship them by express prepaid addressed to the Michigan Cut Flower Exchange, 264 Randolph street, where a competent committee will receive and properly care for them including the staging in the exhibition hall.

It is the desire of the Peony Society to make this exhibition the largest and most interesting in its history and to that end the Detroit florists are working hard and giving wide publicity through the daily press to the event, which will assure a big attendance at the exhibition of all lovers of peonies. The prizes to be offered will be sufficiently attractive to encourage growers from all parts to make exhibits which may be entered in whichever class the grower may elect.

Some of the rewards will consist of roots of the most valuable varieties extant, and amateurs and professional growers will have a chance to add some rare sorts to their collections by this method, which are not available by purchase.

Among these may be mentioned the *Le Cygne* by President James Boyd and the great sensational variety *Jubilee* shown at the Philadelphia meeting two years ago offered as a prize by Lee R. Bonnewitz, Van Wert, Ohio, and the celebrated varieties *Elwood Pleas* and *Lady A. Duff* will be offered by Chas. F. Wassenberg, Van Wert, Ohio.

All correspondence in reference to

the meeting and exhibition may be addressed to J. F. Sullivan, 361 Woodward Avenue, Detroit, Michigan.

ROSE GROWERS AT WASHINGTON.

The following is the proposed program for the national rose test garden meeting at Washington, D. C., Tuesday, June 3:

10.30 a. m. Meet at Gude's Flower Shop, 1214 F. St., N. W.

11.00 a. m. At Arlington Farms for Fifth Annual Inspection of National Rose Test Garden.

1.00 p. m. Luncheon Ebbitt House.

2.30 p. m. Start for "Twin Oaks" where visitors will be received by Mrs. J. C. Bell.

The Florist Club of Washington, through their president, Z. D. Blackstone, have most kindly offered to act as hosts, in an informal way, to the American Rose Society for the day, in the same manner as heretofore. All who go, therefore, should notify chairman of the reception committee, Mr. Otto Bauer, care S. S. Pennock Co., 1216 H. St., N. W., Washington, D. C.

AMERICAN SEED TRADE CONVENTION.

A very interesting program has been prepared for the Thirty-seventh Annual Convention of the American Seed Trade Association to be held at Hotel Sherman, Chicago, June 24 to 26. The following will be the leading addresses:

The Needs for Critical Study in Seed Production—R. A. Oakley, U. S. Department of Agriculture.

Is Seed Trading Worth While—Edgar Brown, U. S. Department of Agriculture.

Our Seed Trade With European Countries—W. A. Wheeler, U. S. Department of Agriculture.

Concerning Article II—Kirby B. White, D. M. Ferry & Co., Detroit, Mich.

Commissions—Leonard H. Vaughan, Vaughan's Seed Store, Chicago.

The Garden Army and Its Purpose—Lester S. Ivins, Bureau of Education, Washington, D. C.

AMERICAN ROSE SOCIETY.

The secretary of the American Rose Society, Professor E. W. White of Cornell, has sent out a call to the members to view the Rose Garden at Washington, D. C., June 3rd. It is expected that the visitors will gather as usual at the store of Gude Bros. about 10.30 a. m., and from there proceed to the grounds. The judges are expected on the gardens at 10 a. m.—others at about 11 a. m. The Washington Florists Club will entertain the visitors about the same as last year.

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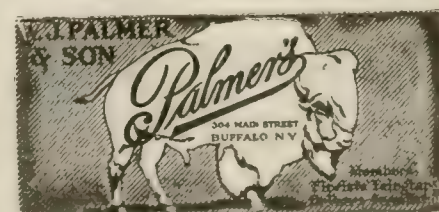
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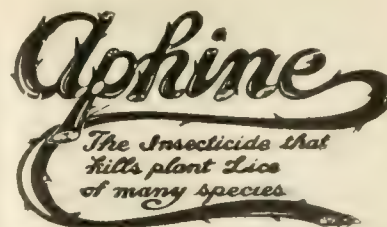
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COMING EXHIBITIONS.

Will secretaries please supply any omissions from this list and correct dates that have been altered:

June 3-4, Bryn Mawr, Pa.—Exhibition of peonies, outdoor cut flowers and hybrid tea roses of the Pennsylvania Horticultural Society. David Rust, secretary, 606 Finance Building, Philadelphia.

June 13, Providence, R. I.—Exhibition of roses and spring flowers of the Rhode Island Horticultural Society. E. K. Thomas, secretary, Kingston, R. I.

June 21-22, Boston, Mass.—Exhibition of roses and peonies of the Massachusetts Horticultural Society. Wm. P. Rich, secretary, Horticultural Hall, Boston.

June 21-22, New York.—Annual meeting and exhibition of the American Sweet Pea Society at American Museum of Natural History. Wm. Gray, secretary, Bellevue road, Newport, R. I.

June 24-25, Jenkintown, Pa.—Exhibition of sweet peas, hardy perennials and hybrid perpetual roses of the Pennsylvania Horticultural Society.

David Rust, secretary, 606 Finance Building, Philadelphia.

June 25-26, Newport, R. I.—Summer show of the Newport Horticultural Society at Convention Hall. Fred P. Webber, secretary, Melville, R. I.

July 5-6, Boston, Mass.—Exhibition of sweet peas of the Massachusetts Horticultural Society. Wm. P. Rich, secretary, Horticultural Hall, Boston, Mass.

August 9-10, Boston, Mass. Exhibition of gladioli and phlox by Massachusetts Horticultural Society. Wm. P. Rich, secretary, Horticultural Hall, Boston.

September 4-6, San Francisco, Calif.—Annual show of the Dahlia Society of California at Palace Hotel. F. C. Burns, secretary, San Rafael.

September 9-11, Hartford, Conn.—Fall flower show of the Connecticut Horticultural Society. Alfred Dixon, secretary, Wethersfield, Conn.

September 11-14, Boston, Mass.—Dahlia, fruit and vegetable exhibition of the Massachusetts Horticultural Society. Wm. P. Rich, secretary, Horticultural Hall, Boston.

September 16-17, Ardmore, Pa.—Exhibition of dahlias, outdoor cut flowers and vegetables of the Pennsylvania Horticultural Society. David Rust, secretary, 606 Finance Building, Philadelphia.

September 18-19, Providence, R. I.—Dahlia show of the Rhode Island Horticultural Society. E. K. Thomas, secretary, Kingston, R. I.

September 23-25, New York—Dahlia exhibition under the auspices of the American Institute of the City of New York and the American Dahlia Society at the Engineering Society building, 25-33 West 39th street. Wm. A. Engleson, secretary board of managers, 322 West 23rd street, New York.

ST. LOUIS.

We had an entire week of dark, cloudy, rainy weather and trade has been slowed up considerably. The market has been well supplied with all kinds of flowers and prices have fallen. The outlook for Decoration Day at this writing promises a big demand. Peonies in bud are now quoted at 8c. and probably will go higher.

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COTONEASTERS OF INTEREST TO NURSERYMEN.

The current bulletin of the Arnold Arboretum gives considerable space to the Cotoneasters. Many of these plants are now in flower in the shrub collection and among the Chinese plants on Bussey Hill. There are twenty-four species and varieties of these plants established in the Arboretum, raised from seeds collected by Wilson in central and western China, and taken as a whole this is the group of shrubs introduced by the Arboretus from China which promises to be of the greatest value for the decoration of New England gardens. For garden purposes they can be arranged according to their habit of growth, the color of their flowers and the color of their fruit as follows:

1. Prostrate shrubs with wide-

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spreading branches, small red flowers and fruits, and small thick dark green leaves persistent in this climate until the beginning of winter, *C. adpressa*, *C. apiculata*, *C. horizontalis* and its varieties *perpusilla* and *Wilsonii*; of these varieties *perpusilla* is much dwarfer than the common form of *C. horizontalis*, and *Wilsonii* is taller than the others.

2. Large shrubs with white flowers and red fruits, *C. hupehensis*, *C. multiflora calocarpa*, *C. racemiflora* and *C. racemiflora soongorica*. In this group are perhaps the handsomest of these plants. *C. hupehensis*, is a tall, broad, fast-growing plant with dark green leaves, larger flowers than those of the other species, and large, scarlet fruits. The flowers are in compact clusters which entirely cover the branches, but the fruit has been only sparingly produced in the Arboretum. The other plants in this group have blue-green leaves and gracefully arching stems. The flowers are rather smaller than those of *C. hupehensis* but the conspicuous fruit, although rather duller in color than the fruit of that species, covers the branches for many weeks in the early autumn. Judged by its gracefully arching branches, its abundant flowers and the size, color, and quality of its fruit, *C. racemiflora soongorica* is the handsomest of the Chinese Cotoneasters which can be grown in this climate and one of the handsomest shrubs of recent introduction.

3. Shrubs with red flowers and fruits, *C. divaricata*, *C. bullata* var. *macrophylla*, and *C. bullata*, var. *floribunda*, *C. Dielsiana*, *C. Dielsiana* var. *elegans*, *C. Zabellii*, *C. Zabellii*, var. *miniata*, *C. Franchetii*, *C. obscura*. In this group *C. divaricata* and *C. Dielsiana* and its variety are perhaps the most desirable garden plants. They have wide-spreading, slightly drooping branches, small, dark-green lustrous

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leaves, and small rather inconspicuous flowers and fruit. *C. Franchetii* appears less hardy in the Arboretum than the others.

4. Shrubs with red flowers and black fruit, *C. nitens*, *C. acutifolia*, *C. acutifolia* var. *villosula*, *C. ambigua*, *C. foveolata* and *C. moupinensis*. Of this group *C. nitens*, although the flowers and fruit are small, is perhaps the most attractive, for none of the Chinese cotoneasters have more gracefully spreading branches and more lustrous leaves; and it may well be placed among the four or five of the handsomest of all the deciduous leaved species of Cotoneaster which can be grown in this climate. *C. moupinensis* and *C. foveolata* are the tallest of the Chinese Cotoneasters, with much larger leaves than the others, the former becoming almost treelike in habit. They are coarse and not very attractive shrubs, but the brilliancy of the autumn color of the leaves of *C. foveolata* entitles it to a place in the collection. The Chinese Cotoneasters produce great quantities of seeds in the Arboretum and during the last two or three years these have been distributed among American Nurserymen. They are easily raised and grow rapidly so that there seems a chance that the beautiful plants will soon be seen in many American gardens.

POPPIES FOR GOVERNMENT PARKS.

In Flanders fields the poppies blow
Between the crosses, row on row,
That mark our place;—

Immortalized by a soldier-poet, himself buried in France, Flanders poppies already are symbols of the Nation's hero dead of the World War, says the National Geographic Society.

Now, the poppy is to receive a semi-official recognition by being planted in Government parks of the Nation's Capital as perennial memorials to the men who sleep under the crosses and poppies of Flanders.

To examine the poppy is not to violate its new-found sentiment, for it unfolds its glories upon closer study. Moreover, it has a symbolism unexpected, because of the pure accident of its association with America's sacrifices for freedom.

The poppy is found in profusion in France, but especially popular in England, because it is the only scarlet flower in the British flora, except the scarlet pimpernel, and even that is more red than scarlet.

The poppy family has as many complexions and habitats as the skins and homes of the men whose graves it decorates. To the swarthy African, to the brave Australian, to the crusading Californian and to the Asiatics employed behind the lines, the poppies of France must have nodded familiar heads in friendly welcome.

There are half a hundred or more species of the poppy family. It is likely the soldier-poet quoted above had in mind the most prolific, one of the most common, and what many consider the most beautiful variety, the corn poppy (*Papaver Rhoeas*). You will recall:

'Neath the blue of the sky, in the green of the corn,

It is here that the regal red poppies are born.

A hint of the reason why the poppy survived the searing tramp of armed hosts and the churning of big gun fire on the erstwhile grain fields of Flanders is given in a farmer's doggerel:

When the poppy ripens be sure the seeds

Will stick the garden as with weeds.

Nature provided the poppy with an intricate and ingenious device of a kind which makes the study of even the simplest plant life a constant marvel and delight. It is the village rheumatic of the flower community—equipped with a miniature hydroscope, long capsules contain the seeds of the poppy. Atop each capsule are valves, sensitive to moisture of the air, which close when the atmosphere is humid.

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS		Last Part of Week ending May 24 1919	First Part of Week beginning May 26 1919
American Beauty, Special	.....	20.00 to 35.00	20.00 to 35.00
" " Fancy and Extra	.....	12.00 to 20.00	10.00 to 16.00
" " No. 1 and culls	.....	2.00 to 10.00	2.00 to 8.00
Russell, Hadley	.....	3.00 to 30.00	3.00 to 25.00
Killarney, Ward	.....	2.00 to 6.00	2.00 to 6.00
Radiance, Taft, Key	.....	3.00 to 25.00	3.00 to 25.00
Ophelia, Sunburst	.....	8.00 to 10.00	8.00 to 8.00
Carnations	.....	3.00 to 8.00	2.00 to 5.00
Cattleyas	.....	20.00 to 50.00	20.00 to 50.00
Lilies, Longiflorum	.....	10.00 to 12.00	10.00 to 12.00
Lilies, Speciosum	.....	.....	.....
Callas	.....	8.00 to 16.00	8.00 to 16.00
Iris	.....	4.00 to 6.00	3.00 to 5.00
Lily of the Valley	.....	2.00 to 6.00	2.00 to 6.00
Snopdragon	.....	8.00 to 6.00	2.00 to 6.00
Pansies	.....	.50 to 1.00	.50 to 1.00
Daffodils	.....	5.00 to 6.00	5.00 to 20.00
Calendula	.....	5.00 to 25.00	2.00 to 3.00
Stocks	.....	2.00 to 6.00	2.00 to 4.00
Wallflowers	.....	.....	1.00 to 2.00
Mignonette	.....	2.00 to 3.00	1.50 to 3.00
Sweet Peas	.....	.75 to 2.00	1.00 to 3.00
Violets	.....	2.50 to 4.00	1.00 to 3.50
Marguerites	.....	1.00 to 2.00	1.00 to 2.00
Gardenias	.....	6.00 to 25.00	5.00 to 25.00
Adiantum	.....	.75 to 1.25	.50 to 1.00
Gladioli	.....	6.00 to 12.00	6.00 to 12.00
Asparagus Plumosus, & Spren (100 bunches)	.....	15.00 to 30.00	16.00 to 30.00

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON May 28	ST. LOUIS May 26	PHILA. May 26
Roses			
Am Beauty, Special	20.00 to 25.00	50.00 to 60.00	50.00 to 75.00
" " Fancy and Extra	6.00 to 10.00	25.00 to 40.00	30.00 to 40.00
" " No. 1 and culls	1.00 to 3.00	5.00 to 15.00	8.00 to 20.00
Russell, Hadley	8.00 to 18.00	5.00 to 25.00	10.00 to 20.00
Killarney, Ward	2.00 to 10.00	4.00 to 10.00	3.00 to 8.00
Radiance, Taft, Key	2.00 to 10.00	3.00 to 8.00	.....
Ophelia, Sunburst	2.00 to 10.00	4.00 to 10.00	3.00 to 10.00
Carnations	6.00 to 12.00	3.00 to 6.00	5.00 to 8.00
Cattleyas	25.00 to 5.00	50.00 to 75.00	60.00 to 75.00
Lilies, Longiflorum	16.00 to 25.00	20.00 to 25.00	15.00 to 20.00
Lilies, Speciosum	8.00 to 20.00	.....	.....
Callas	12.00 to 25.00	15.00 to 20.00	12.50 to 15.00
Iris	2.00 to 4.00	10.00 to 25.00	10.00 to 12.00
Lily of the Valley	1.00 to 4.00	6.00 to 8.00	8.00 to 10.00
Snopdragon	8.00 to 12.00	4.00 to 6.00	8.00 to 10.00
Pansies	.25 to 1.00	.....	5.00 to 6.00
Daffodils	6.00 to 8.00	5.00 to 6.00	.....
Calendula	1.00 to 2.00	2.00 to 4.00	2.00 to 4.00
Stocks	8.00 to 10.00	5.00 to 8.00	4.00 to 5.00
Wallflowers	3.00 to 4.00	.....	.....
Mignonette	4.00 to 6.00	2.00 to 4.00	3.00 to 4.00
Sweet Peas	1.00 to 2.00	.20 to .75	1.00 to 3.00
Violets	.75 to 1.00	.35 to 1.00	.....
Marguerites	1.00 to 2.00	1.50 to 2.00	.50 to .75
Gardenias	18.00 to 20.00	.....	30.00 to 40.00
Adiantum	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Gladioli	16.00 to 25.00	5.00 to 12.00	10.00 to 12.00
Asparagus Plumosus, & Spren. (100 Bchs.)	20.00 to 50.00	25.00 to 75.00	50.00 to 60.00

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI May 26	CHICAGO May 26	BUFFALO May 26	PITTSBURG May 26
Roses				
Am. Beauty, Special	50.00 to 60.00	50.00 to 60.00	40.00 to 50.00	..... to 50.00
" " Fancy and Extra	30.00 to 40.00	35.00 to 40.00	30.00 to 40.00	..... to 30.00
" " No. 1 and culls	8.00 to 25.00	12.00 to 15.00	3.00 to 15.00	6.00 to 20.00
Russell, Hadley	10.00 to 25.00	5.00 to 30.00	12.00 to 20.00	10.00 to 25.00
Killarney, Ward	6.00 to 15.00	5.00 to 15.00	5.00 to 12.00	6.00 to 15.00
Radiance, Taft, Key	10.00 to 25.00	5.00 to 15.00	6.00 to 15.00	8.00 to 15.00
Ophelia, Sunburst	8.00 to 25.00	3.00 to 15.00	6.00 to 15.00	8.00 to 15.00
Carnations	3.00 to 8.00	6.00 to 12.00	3.00 to 7.00	8.00 to 10.00
Cattleyas	75.00 to 100.00	60.00 to 80.00	75.00 to 85.00	100.00 to 125.00
Lilies, Longiflorum	20.00 to 25.00	15.00 to 20.00	15.00 to 20.00	20.00 to 25.00
Lilies, Speciosum	.....	.....	8.00 to 10.00	..... to 25.00
Callas	15.00 to 20.00	12.00 to 18.00	15.00 to 25.00	20.00 to 25.00
Iris	6.00 to 8.00	15.00 to 20.00	8.00 to 10.00	8.00 to 10.00
Lily of the Valley	6.00 to 8.00	3.00 to 8.00	4.00 to 10.00	10.00 to 12.00
Snopdragon	8.00 to 15.00	10.00 to 20.00	6.00 to 15.00	2.00 to 6.00
Pansies	1.00 to 1.50	.50 to 1.00	.40 to 1.00	4.00 to 6.00
Daffodils	2.00 to 4.00	3.00 to 6.00	8.00 to 5.00	2.00 to 4.00
Calendula	2.00 to 3.00	3.00 to 5.00	2.00 to 3.00	2.00 to 4.00
Stocks	4.00 to 8.00	6.00 to 12.00	3.00 to 6.00	.....
Wallflowers	.....	1.00 to 2.00	.....	.....
Mignonette	.....	6.00 to 8.00	3.00 to 5.00	3.00 to 4.00
Sweet Peas	1.00 to 1.50	1.00 to 2.00	.75 to 1.00	.75 to 1.00
Violets	.....	1.00 to 2.00	1.00 to 1.50	.75 to 1.00
Marguerites	2.00 to 3.00	1.00 to 2.00	1.00 to 1.50	2.00 to 3.00
Gardenias	.....	15.00 to 25.00	20.00 to 25.00	.....
Adiantum	.....	1.00 to 1.25	1.00 to 1.00	1.50 to 2.00
Gladioli	10.00 to 15.00	5.00 to 12.00	.....	.....
Asparagus Plu. & Spren. (100 Bhs.)	25.00 to 50.00	50.00 to 100.00	35.00 to 50.00	40.00 to 75.00

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1,303,129. Plowshare. William R. Thomas, Great Falls, Mont.
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Witloof chicory is now being grown pretty commonly by private gardeners. Estate owners have found that it is possible to obtain just as good a quality of French Endive from their own gardens as that which formerly was imported from Belgium. It is an easy crop to grow and just as easy to force. The seed should be sown within the next two weeks in order to get good forcing roots for next winter. It is best to have a deep, light soil so that

the roots can grow straight down without meeting obstructions. There is always more or less branching when the soil is heavy unless it is trenched or in some other way made deep to accommodate this crop. It doesn't need to be especially rich. Soil that is good enough for parsnips or salsify will grow excellent Witloof. The aim should be to obtain roots which are not under an inch in diameter. Roots that are over two inches are not to be desired. At least it is the opinion of experts that the bigger roots do not make as good heads.

Care should be taken to get genuine Witloof Chicory seeds. The common chicory is very much inferior. There should be no difficulty in getting first quality seed at reliable seed stores. Make your rows about eighteen inches apart and have the plants not closer than five inches in the rows. Three-quarters of an inch is deep enough to sow the seeds and it may be well to mix in a few radish seeds as the Witloof is often a little slow in germinating and the weeds may get a start before it comes up unless there is some guide to make it possible for you to begin cultivating.



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By M. G. KAINS

Lecturer on Horticulture, Columbia University

Few practices in the handling of plants, especially fruit bearing plants, attract so much interest as do those of pruning. The methods are so varied, the results so diverse, and the opinions of growers so apparently contradictory that this subject is always one of the most interesting, and the surest to hold attention and arouse discussion.

Particularly during the last ten or fifteen years when the principles of plant physiology have been more and more satisfactorily applied to plant production and management has interest settled in pruning. During the latter half of this time also more and more investigations and tests have been conducted by experiment stations and other workers to test out methods and principles in the interest of science and for the benefit of growers. The accumulation of such new knowledge has become very considerable especially in the last decade, but it is necessarily so scattered that very few growers have access to it, hence the demand for a book, which shall present the really important features of these investigations as well as set forth the fundamental principles based upon the laws of plant growth.

This volume is lavishly illustrated mainly by actual photographs of specimens which show good and bad practices. The author has spared neither time nor expense in gathering his photographs, each one of which tells its story.

After a few pages of introduction the author discusses Plant Physiology as related to pruning. A chapter takes up the Philosophy of Pruning, itself a very interesting subject. Then follows a classification and clear discussion of Buds, very fully illustrated from life. How Wounds Heal is an exceedingly interesting chapter, as are also those on Prevention and Repair of Mechanical Injuries, Pruning Nursery Stock, Young Trees, Mature Trees and Odd Methods of Pruning and Training, Rejuvenating Neglected Trees and Practical Tree Surgery.

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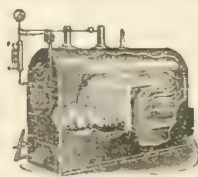
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HORTICULTURE

Vol. XXIX

JUNE 7, 1919

No. 23

ROSES

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- 1200 HADLEY
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Plants from 2¼-inch pots, \$16.00 per 100; \$150.00 per 1000. Extra strong, heavy plants, 3½ and 4-inch pots, ready for immediate planting, \$30.00 per 100.

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Long and pointed in the bud, which are a beautiful sulphur-yellow, changing to creamy yellow, and finally in the fully developed flower to pure waxy white. Very large flower when fully developed, resembling Silver Moon, showing the same pronounced cluster of yellow stamens in the center.

Extra strong plants, 3½-inch pots, ready for immediate planting, \$30.00 per 100.

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We are booking for the wise ones now at \$25.00 per 100, the price will not be any less, perhaps more.

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LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....556	Clarke, D. Sons.....548	Graham & Son, A.....549	Lemon Oil Co.....552	Pulverized Manure Co.....552	Stearns Lumber Co., A. T.....552
Alexander, J. K.....536	Cooke, Geo. H.....548	Grakelow, Chas. H.....549	Liggit, C. U.....535	Randall Flower Shop.....549	Sumpp, G. E. M.....548
Allen, J. K.....550	Conard & Jones.....536	Grey & Co., T. J.....534	McCarthy & Co. N. F.....536	Reed & Keller.....551	Stumpp & Walter.....534
American Bulb Co.....534	Cowee, W. J.....550	Gude Bros. Co.....548	McHutchison Co.....535	Reid, Edw.....550	
Anderson, S. A.....549	Craig Co., Robt.....535		Marshall, W. E. & Co.....534	Reuter, L. J. Co.....536	Thorburn, J. M. & Co.....534
Apfne Mfg. Co.....552			Michell, H. F. Co.....545	Rice & Co., Jerome B.....534	Totty, Chas. H.....536
Barrows, H. H.....536	Danker.....548	Hart, Geo. B.....550	Michigan Cut seryman.....536	Robinson, Henry M. Co.....550	United Cut Flower Co.....550
Bay State Nurseries.....535	Dards.....548	Heistad, H.....535	Murray, Samuel.....548	Robinson, H. M. & Co.....550	
Bobbtink & Atkins.....535	Dolansky & McDonald.....550	Hess & Swoboda.....549	National Nur- N. Y. Botanical Gardens.....536	Roland, Thomas.....548	Vincent, R., Jr. & Sons Co.....533
Boddington Co., Inc., A. T.....545	Dreer, H. A.....552	Hews & Co., A. H.....552	Niessen Co., Leo.....550	Sheridan, W. F.....551	Wants, For Sale, etc.....554
Bolghano & Son.....534	Dunlop, John H.....549	Hill Co., E. G.....550	Palmer, W. J. & Son.....549	Siebrecht, Geo. C.....551	Warburton.....548
Boston Floral Supply Co.....551	Dysart, R.....536	Hill, D. Nursery Co.....536	Park Floral Co.....549	Siggers & Siggers.....556	Weber, F. C.....549
Breck, J. & Sons.....534	Edwards Folding Box Co.....550	Howard, W. D.....536	Penn the Florist.....548	Skidelsky, S. S. & Co.....534	Wilson.....548
Brettmeyers, J. Sons.....548	Elm City Nurseries.....536		Pennock S. S. Co.....533	Smith, W. & T. Nursery Co.....536	Wood Bros.....548
Budlong, J. A.....530		Kastling, W. F. Co.....550	Pino - Lyptol Chemical Co.....555	Smith, The Florist.....548	Woodmont Nurseries.....536
Bunyard, A. T.....548	Farquhar, R. & J. Co.....534	Kelway & Son.....534	Pierce Co., F. O.....554	Smith & Fettes Co.....549	Woodruff, S. D. & Sons.....534
Burnett Bros.....534	Fengar, E. W.....535	Kervan Co.....551	Pierson, A. N.....533	Smyth, Wm. J.....549	Zech & Mann.....550
Burpee, W. A. & Co.....534	Ford, W. P.....551	Knoble Bros.....549	Pierson, F. R.....533		Zinn the Florist.....548
	Froment, H. E.....551	Kroeschell Bros.....556			
Carter's Tested Seeds, Inc.....534	Galvin, Thos. F.....549	Kuebler, W. H.....551			
Childs, John Lewis.....536	Gasser Co., J. M.....549	Kottmiller.....548			

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ST. LOUIS.

Mothers' Day business was very
good with the wholesalers, especially
in out of town shipping. Local florists
spoke of good trade Thursday, but as
the heat was great and the soldiers'
parade kept many of the people from
buying.

Decoration Day in St. Louis was
never a heavy one. Plant men were
busy and plants were sold at good
prices.

Publicity ads. in the newspapers
seemed to help swell the demand.

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HORTICULTURE

Vol. XXIX

JUNE 7, 1919

No. 23

BULBS AND BULB PRICES

There is no doubt of the fact that bulbs are going to be somewhat short this season and it is a serious question as to the extent which the florist will be able to use them. The prices charged customers next spring will have to be higher, both for cut flowers and for potted plants than they were this season. This is unfortunate, for there has been a growing appreciation of bulbous flowers, especially Darwin tulips, and an increasing demand.

The reason for the shortage can be traced back to the war. While many of the large Holland growers continued growing stock all through the troublesome times, a large percentage of the smaller growers were obliged to suspend operations. Now they are stocking up again. As a result a large part of the crop will be taken at home. In other words, the Hollanders are in competition this year with the foreign trade.

Then England did not allow the importation of bulbs last year. Now, of course, they are being admitted and the demand from that country eats heavily into the supply which otherwise would cross the seas. Just how many bulbs will go to other parts of Europe, it is impossible to say, but it is reported that considerable buying is done in the Scandinavian countries.

Coming to concrete facts, it is probable that the increase in prices to wholesalers will be jumped from four to ten dollars a thousand, depending upon the kind. As prices are already high, this will make the cost practically prohibitive for many dealers, who know that they will sell only a limited number of flowers when they pass the increase along to their customers. From the present outlook there would not be enough Holland stock to go around if buying were free, so that the increased price will form a natural check.

Of course freight rates continue very high, but insurance is less now that the submarine menace no longer exists. Moreover, shipments will arrive much more promptly than last season and there will be fewer losses. It is reported that the importers in this country are ordering very conservatively. Some of them are making conditions of acceptance when taking orders which read somewhat as follows:

"All advance orders for growing crops are booked by us previous to harvesting and receipt—subject to crops permitting—and accidents or delays beyond our control. Should shortages necessitate it, we reserve the right to fill such orders pro rata."

It is understood that the Holland growers have formed closer associations than ever before, that they are having the moral if not the financial support of the

Dutch government in getting the business back to a normal condition. The Hollanders feel none too kindly disposed toward the United States as a result of the Federal Horticultural Board's drastic ruling excluding great numbers of important plants and it is safe to say that but few favors will be shown Americans this season.

Of course the embargo on Chinese lilies will be raised this season, in place of these lilies many florists last year recommended the *Tazetta narcissi*. Millions of these bulbs were grown last winter in window gardens and conservatories, in earth, fibre or water.

It is interesting to know that this class of *narcissi* was cultivated in Egypt a century or more before the birth of Christ, and the flowers were largely used then as now in funeral ceremonies. Probably there will be a considerable demand for these *narcissi* this season, as many people became fond of them.

Opposition to Plant Exclusion

The leading papers of the country show remarkable unanimity in their opposition to the plant exclusion act. In its current number the *American Botanist* says:

"It is not likely that a policy of separating ourselves from the good things of this world to spite a few measly plant pests will commend itself to a free people. To be sure a race of landscape artists has sprung up in this country which is so patriotic that it will plant only native species, but while we admit that many handsome shrubs and trees originated in this country, we do not see how the best planting can do without the lilacs, the forsythias, the rhododendrons and many others that make our grounds attractive. We cannot help feeling that the horticulturists should have bent their efforts toward establishing safe methods of importing plants instead of proposing to shut ourselves up in magnificent isolation. Fortunately for us, a change in the political complexion of the country may make possible the modifying or rescinding of the obnoxious order. Its enforcement for a short time may possibly be of value in emphasizing the harm that such a sweeping order is sure to bring to the gardening movement in America."

Another Honor for Mr. Wilson

At a meeting in Paris on the 25th of May La Société Nationale d'Acclimation de France bestowed its Médaille hors classe à l'effigie d'Isidore Geoffroy Saint-Hilaire on Ernest H. Wilson, Assistant Director of the Arnold Arboretum, in appreciation of his services to the world by his discovery and introduction into the United States and Europe of a large number of valuable Chinese and Japanese plants.

HORTICULTURE

Established by William J. Stewart in 1904

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NO. 23

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Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

The fight is on The congressional fight on Quarantine Regulation No. 37 has begun. There is every prospect, too, of a good, lively battle.

Congressman Treadway of Stockbridge, Mass., is the man to fire the first gun. Last week Mr. Treadway made an energetic protest against blanket authority being vested in the Horticultural Bureau of the Department of Agriculture to make rules and regulations regarding the importation of plants and bulbs. Mr. Treadway quoted from resolutions adopted by the Lenox Horticultural Society condemning the practice of the Federal Bureau and announced that he would ask for a full explanation of the workings of the bureau when the item for its maintenance was reached. This is only the signal shot. Wait until the real barrage is laid down. Then something is likely to happen.

Will it last?

With the surprising volume of business which has helped to fill the coffers of the florists and growers during the past few months there has come a certain tendency to believe that a new era has set in and that high prices with plenty of trade will continue indefinitely. Perhaps no such thought has taken definite shape, but it is evidenced by the disinclination in some quarters to reach out for future business, or even to take part in the national publicity campaign now being carried on. Let the situation be analyzed, though, and it is likely to appear that the florists' trade, like other lines of business, is simply reflecting the wave of prosperity which has come with unprecedentedly high wages. If the dealer will go over his books, he will be likely to find a very different list of names from that which he would

have found two years ago. Conditions are analogous to those in the piano business, for example. Not for years have so many pianos and piano players been sold. Some concerns can hardly keep up with their orders, and instruments with prices running from \$400 to \$600 are most in demand. The business of the talking machine dealers is equally good, and the higher grade machines have the call. Now this demand does not come from the wealthy class, but from salaried men and wage earners. Some time ago a motorman in uniform stepped into a department store and asked to see some toys for his children. Nothing satisfied him until a complicated mechanical toy priced at \$60 was produced. That interested him. He dug down into his jeans, produced the amount specified and had the toy sent home. No matter how optimistic we may be, we cannot expect that this sort of thing is going to last. A readjustment is bound to come all along the line, and the florist who settles back with a feeling that he never will have to hustle any more to get business is going to have a rude awakening. It is time to make hay while the sun shines, of course, but it is equally advisable to get the hay under cover in anticipation of rainy weather ahead. The wise florist is the man who lays his plans now for future business by studying his trade, by testing out all available advertising methods suggested, and especially by rearranging his credit system so that there will be fewer losses when money is less plentiful.

Footprints on the Sands of Time

The immortal lines of Wm. J. Stewart's fellow townsman, Henry Wadsworth Longfellow:

"Lives of great men all remind us
We can make our lives sublime
And departing leave behind us
Footprints on the sands of time,"

are a happy sizing up of Mr. Stewart's long and active life. He left many footprints, and the finest and best was the one that took him 15 years to impress on the world—and its name is

HORTICULTURE.

No finer way, to keep his memory green forever, lies to his admiring friends than in keeping that footprint fresh and green in the path he pointed it—namely for the wholesome development of horticulture in its highest reaches in every direction. To do this, support HORTICULTURE wholeheartedly by sending it advertising, news, advice, articles. And tell all your friends to subscribe. When you come to think of it, this line of action is really a bigger compliment to Mr. Stewart's memory than writing fine poems about him—much as everybody appreciates these beautiful tributes. Send in that ad., and with your own sub. see that you add a new one from some neighbor, not already in the running.

GEORGE C. WATSON.

OTHER PEOPLES' OPINIONS

Why Not Send Us Yours?

Boston, June 3, 1919.

The custom that has been displayed by our people, in honor of their beloved parents who have passed to the great beyond, has been explicitly shown and firmly appreciated by the vast populace who wear a simple flower on a certain day each year, as a token of respect for their bereaved parents. The custom is American, and the simplicity of its exemplification with the popularity of its adoption, is a crystalized acknowledgment of how our young men and women respect and honor the loved ones who gave them birth. Could there be a more simple and beautiful way of showing our esteem for our bereaved parents, than by wearing a simple white carnation in honor of our departed mother and a red carnation in respect to our father.

These fine old people have done their duty, and have done it well. They have been successful in the great achievements of material progress. They have preserved the freedom of democracy with an enviable reputation. They have left young men and women with strength and vigor to care for the work they had so successfully achieved.

The sons and daughters of these men and women have done even a greater duty. They have fought for the freedom of the world, and the sorrow and anguish that was brought to their homes was even greater than the loss of aged parents. Husbands, fathers, sons, sweethearts, friends and neighbors have sacrificed their lives, and "paid the price." Why then, shouldn't those brave lads be remembered, by wearing a simple little flower as a token of esteem to their honor. And it seems to me no greater tribute could be paid to the memory of these brave heroes, who gave their lives so cheerfully, and no more appropriate day could be chosen than on the eleventh day of November—the day on which the armistice was signed.

I hope the custom will be adopted, and trust that it will be universal—that everybody will wear a white pompon chrysanthemum on that day each year as a symbol of respect and honor for those boys who now lie sleeping under the poppies of Belgium and in the fields of France and Russia, or under the waves of the Atlantic.

Let us, therefore, encourage this simple and yet splendid demonstration of our affection for the soldier dead.

RICHARD J. HAYDEN,
Park and Recreation Dept.

A ROCKY SHORE.

We were asked one time by a person with more curiosity than wisdom whether we thought it honest to give a present to an employee. We opined that if one wanted decent service at the hotel at lunch time one had better cough up a little something. But he says, no I don't mean that, I mean in bigger things. Well, as to bigger things, that's different; but we were brought up to the idea that "steal a needle steal a pin—steal a cow or all be done." So you don't believe in it, the lad persisted. We hedged again by asking if he had ever read Captain Marryat. He said yes, and I says don't you remember how in the storm they held the helm up and let the ship reel and wallow in the trough. They could see the rocks ahead, the white waves raging around them. The current set strongly towards the rocks. But a backwash helped the helm and they won clear. "Hold her," yells the Captain, "Rocks ahead," and Fred immediately roared, "Throw the anchor over and let everything go." But it took George to save the day for with one bound he slashed the halyard with his knife. Down came the great spar with a crash and with the helm and anchor down they swung into safety in the rocky haven. We stopped there, out of breath, and our inquisitor wanted to know what in the name of the seven motherless cats that had to do with giving presents or tips or divies or whatever you call them. Why, we replied, its like this, you see that ship had no sooner got anchored in that safety haven than the men, taking a look ashore, found the rocks all around covered with hidden, half-hidden, and open pirates, with guns, knives and pistols all ready and waiting for them with whiskers bristling and teeth—Oh, go to Halifax, said the inquisitor, you make me sick. And off he went. Of course, we kept solemn until he was around the corner, and then we gave Towser a playful kick—and that old pup just laughed. He sure did.

McTAVISH.

THE BOND OF BROAD FELLOWSHIP

Now that the fifth Victory Loan or Liberty Loan has just been put over

successfully, there is one more issue going the rounds, for the florists to participate in and that is the "Say it with Flowers" issue which if properly finished and the \$100,000 over-subscribed will net more good-will and interest outside the Bond issues of Uncle Sam which we all hold dearly and foremost in our duty to our country, and next to that comes our duty to our own cause namely, the Publicity Campaign which is already getting the hold on the Floral industry as to make the movement the most talked about activity the florists as a whole have had the privilege to share.

With it has come about the tie of fellow-ship for broader ideals toward a more common good for all who will share its interest and principal as well, as the welding together of all branches of the industry towards higher ideals for a more successful future than we even anticipated.

It has already produced many new features toward bettering the buying and selling of flowers and has aroused new interest the country over and the new interest it has produced will benefit all with whom it comes in contact.

Be one of the connecting links in this bond of fellowship and participate in its earnings. It will broaden us all if we affiliate.

HENRY PENN,

Chairman National Publicity Campaign.

CINCINNATI NOTES.

Clifford Mehland, formerly with Fred Gear, and who was with the American Expeditionary Forces in France, has returned to this country and is in Camp in New Jersey.

Chas. Wiethorn is the new manager in charge of Peter Weiland's Cincinnati office.

C. E. Critchell has been getting in an excellent lot of peonies from out of town.

Recent visitors were Sam Seligman, representing Schloss Bros., New York; Mr. Blackshaw, representing Ove Gnatt Co., Laporte, Ind., and J. W. Rodgers, Dayton, Ohio.

All of the Cincinnati wholesale florists have decided they will close each Sunday during the summer months and are considering the advisability of making Sunday closing a permanent rule.

Recent visitors were Miss Van Meter, Springfield, Ohio; Mrs. E. K. Schweikert, Hinton, W. Va.; Miss Margaret Weiland, Evanston, Ill., and C. E. Ruch, Richmond, Ind.

NEWS AND COMMENT

BOSTON.

The greatest slump ever known in the Boston flower market on a week after Memorial Day hit the town this week. As one man remarked, "You could buy carnations from four cents down and it didn't make much difference how low one wanted to go." Moreover, it was impossible to get any trace of the alibi kid in the market. The growers frankly acknowledged that they did not know where the trouble lay. Of course the warm weather was blamed quite generally, and other possible causes were advanced, but not with conviction. The fact was simply that flowers were coming in in enormous quantities and that the public had largely stopped buying. Of course the influx of flowers was not due to any holding back the previous week. Everybody was cleaned out for Memorial Day but the plants had got into the habit of blooming and just kept it up.

Some of the flowers looked very good, too. Splendid peonies came in all the week, first rate stuff. The gladioli were good, but they could be bought for almost any price. However, it is safe to say that this condition will not last long.

The meeting of the Boston Florists' Association which would have naturally been held on Tuesday night was omitted, owing to the work caused by the holiday. It is probable that the meetings will be postponed until Fall if the warm weather continues.

Mr. Patrick Welch is on a ten days' trip to Washington, D. C.

Mr. John Farquhar made a flying trip to Washington the first of the week.

The rhododendrons at the Arnold Arboretum are now at their best and are attracting much attention.

PHILADELPHIA.

A very good business was done Memorial week and it would have been even better except for two warm days, Wednesday and Thursday, which put the wholesale trading a little on the blink at the wind up. But even at that the volume was away ahead of last year, and the prices realized were much better. Roses were very plentiful and good. These and the peonies had it all their own way in the forefront of the market. Carnations were not so plentiful and the quality is beginning to wane a little. No Easter

Lilies to be seen around and white callas are scarce. Delphiniums are very good and meet with ready sale. Sweet peas holding their own very well, although the hot weather is a little hard on them. Cut flower conditions here are in fairly healthy condition. Roses with the exception of American Beauty are of very good quality and fairly plentiful. Beauties have not been up to standard for some time, especially in the medium and lower grades. The specials (or top grade) of Beauties show up better and give more satisfaction. Carnations have been coming in more freely during the past few days and have dropped a little in price. Sweet peas are a strong factor and the long stemmed bring good figures, but there are rather too many of the shorts and they do not go so well. Cattleyas show up well and it looks as if they would be on deck in quantity for the wedding days—next two weeks. The trade is looking forward to a lively June this year.

Frank M. Ross has the reputation of being the keenest buyer in this burg. The commission men say he has a nerve nineteen times harder than flint and has never been known to get stung once, in the quarter century he has been up against the smartest sellers in the market. And yet they got his goat the other day. There was a concourse of about twenty crazy lunatics around the Ross wagon at 16th and Ludlow, all shouting, laughing and dancing around. The chorus was "Oh, we've got Frank's goat, we've got his goat, we've got his goat at last!" And the cause of all the excitement turned out to be merely a young Billy in a packing case, enroute from Shenandoah to Frank's farm at Hatboro, where he wants it to keep the lawn trimmed, clean up tin cans, and otherwise save expense and bring in profits. Some people would laugh if your hat blew off. Bad manners.

ROCHESTER.

John Murrell, of Trondequoit, had a heavy crop of carnations from which he cut three thousand carnations during the past few weeks and has a heavy stock of other seasonable flowers and bedding plants. He has made his first cut from the young stock of carnations.

On Tuesday, May 27, most of the florists were busy arranging flowers

for the funeral of Mr. A. B. Lamber-ton. An elaborate basket of American Beauties and white Lilacs was sent by the Park Board and a handsome casket cover of Carnations and pink Roses.

Lilac Day was observed at Highland Park on Sunday, June 1st.

Last week's business for Decoration Day was excellent and cleared the overstock of seasonable flowers which glutted the market. Roses are plentiful and of good variety and include Russell, Shawyer, Ophelia, Maryland, Columbia and American Beauties. A heavy crop of excellent sweet peas are on the market and find ready sale. Long-stemmed snapdragon and delphinium are popular; carnations are good for summer crop; the first crop of peonies have arrived and some good varieties of lilacs are on the market. Lily of the valley, out door variety, are unusually good. Calla and Easter lilies are scarce. Darwin tulips of all shades are plentiful. Marguerites, pansies, forget-me-nots, candytuft, calendulas, are plentiful. Bedding stock of all kinds sells well. Asparagus is not very good but some good new ferns sell well.

NEW ENGLAND.

Plans outlining improvements at Fuessenich Park, Torrington, Conn., will be prepared immediately under the direction of Mr. Gallagher, representative of Olmstead Brothers, landscape gardeners.

The preliminary schedule of prizes for the exhibition of orchids and other plants, March 24-28, 1920, of the Massachusetts Horticultural Society has been issued. Prizes amounting to more than \$5,000 are offered. It will be an exhibition of importance and is already exciting considerable interest among orchid lovers.

The Abington, Mass., park commissioners are making many improvements to Island Grove Park, among them the setting out of 600 young pine trees and establishing a nursery of 500 more for future use.

Henry Moller of New York and Newport, R. I., has opened a new store at 128 Bellevue avenue, Newport. Mr. Moller is well known by the summer trade, because of his association for many years with the well known firm of Wadley & Smythe. Newport is noted for its many fine floral displays, few cities of its size maintaining such a large trade and few stores having such attractive windows.

Archibald Edwards of Westfield, Mass., has taken a position with Nicholas the florist.

NEW YORK STATE.

The difficulties some florists had in getting a sufficient number of flowers last week is illustrated by an advertisement which appeared in a Sauger-ties paper. It read as follows:

10,000 10,000 10,000

Lily of the valley, cut flowers wanted at Stow's Flower Store, immediately. Bring sample and get price. Will take all you can pick as long as they last. Put plenty of foliage with them. C. B. Stow, florist, Partition street.

Many improvements are being made at the greenhouse plant of J. J. Arnold & Son, at Cortland. The firm have been shipping thousands of pansy plants and could dispose of many thousands more if they had any surplus. They have also thousands of coleus (foliage) plants ready which they have commenced shipping to out-of-town customers.

Mrs. Baust has opened a florist store near Roosevelt avenue, Corona, according to a Boonville paper.

THE AMERICAN PEONY SOCIETY.

The 17th annual exhibition of this society which takes place in the Hall of the Board of Commerce, Lafayette avenue and Wayne street, Detroit, Michigan, June 17-18, already gives indications of being the best in the history of the society. The date fixed for the event this year is over a week later than that of the exhibition at Cleveland a year ago.

Many growers who wished to make exhibits in the different classes then were unable to do so owing to the date which was found too early for the great number of growers adjacent to the Lake region. The cold weather that has prevailed so far this season has been most favorable to the growers in the North Central states and many of them will take advantage of these exceptional conditions and make extensive exhibits.

This year no charge will be made for admission to the exhibition and the greatest efforts will be made to have a big attendance of the flower loving public, which will further popularize the peony to the end that everyone with even a small plot of ground will hereafter grow some peonies.

The Detroit Florists Club is co-operating in this event with the American Peony Society and will have full charge of the exhibition, and peony growers everywhere are urged to their utmost to make exhibits. Those who are unable to bring their flowers may safely address them to the Michigan Cut Flower Exchange, 264 Randolph Street, Detroit, Michigan, with charges

prepaid, and marked "For the Peony Exhibition."

These will be given special care and properly staged in the exhibition hall. All entries for competition and correspondence in connection with the same may be addressed to J. F. Sullivan, 361 Woodward Avenue, Detroit, Michigan.

GARDENERS' & FLORISTS' CLUB OF BOSTON.

The next meeting of the club will be Ladies' Night, and on account of the holiday, the date has been changed to Wednesday evening, June 18th. The annual picnic will be held at Cunningham Park, East Milton, Mass., on Thursday, July 24th.

A CORRECTION.

In Mr. Craig's note last week, the sentence "—the course adopted during the European War compares not unfavorably with that of over half a century ago," should have read "—the course adopted during the European War compares most unfavorably with that of over half a century ago."

CINCINNATI.**The Market.**

Since Memorial Day the supply in the market has been very heavy and the market is glutting up with stock of all kinds. Business, while fair, is slower than it was and is not able to take up all of the receipts. The demand from out of town continues to be fair, although it is not as brisk as it was.

Roses are plentiful and can satisfy all immediate needs in this line. The carnation supply is very heavy and shows the effects of the torrid weather that is prevalent in this section of the country. The peony market is glutted. The heavy supplies in this line came in too late for Memorial Day business. No Easter lilies may be had at this time and there is but a limited supply of Rubrum and Callas. This supply, however, is sufficient for present needs. Gladioli are proving good property. The same is true of Lily of the Valley, which are in good demand this month. Other offerings are cornflower, snapdragon, stocks and Marguerites.

REMOVING TAP ROOTS.

Writers in the New York Sun have been having an interesting discussion about tap roots. Chas. G. M. Stewart

of Elizabeth, N. J., writes as follows:

In general, all vegetables which are grown for their leaves or heads should have their tap roots carefully removed, while all those which produce root crops should be permitted to retain their tap roots.

The reason for this appears to be that a tap root is really not only a root but a portion of the stem of the plant itself growing below the ground. If such a vegetable makes equal growth above and below ground, neither, apparently, develops sufficiently to be of much value for table use.

In plants which head up, such as lettuce, cabbage, spinach and celery, it is desirable to produce as large and heavy a top growth as possible. If the tap root is left on these plants the root gradually thickens and extends, penetrating deeply into the ground. It appropriates to itself all the nourishment and deprives the head or leaves of sustenance, also it prevents the formation of the mass of small rootlets nearer the surface of the ground which forage for and assimilate plant food from that part of the soil where it is most abundant. Cut off this tap root and immediately the plant throws out hundreds of fine little rootlets, each of which works to supply the head with food. The result is that the head receives all the nourishment and develops accordingly.

On the other hand, the edible part of such plants as carrots, beets, parsnips, etc., is the tap root itself therefore it is necessary to operate with this in view and stimulate the development of that portion of the stem below the ground. In transplanting such vegetables great care must be taken not to injure the extreme tip of the delicate tap root, for if this is once broken its growth stops. Then immediately there forms a cluster of small rootlets, very desirable in the case of celery, but absolutely worthless for the production of a beet. For this reason it is almost impossible to transplant carrots, as the tip of the tap root is extremely sensitive and the slightest touch or exposure apparently destroys its power of growth. Beets, however, may be readily transplanted if care is taken to avoid breaking the tip of the tap root.

Vegetables of which the tap root forms the edible part should not be grown in very rich or freshly manured soil, as this has a tendency to stimulate the development of the mass of fine rootlets and results in forced or double tap roots. Conversely, the soil for head or leaf crops should be as rich as possible and plenty of water should be provided.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

NATIONAL PUBLICITY CAMPAIGN.

The following letter, from Spokane, Wash., attests to the benefit resulting from the Publicity Campaign in a marked manner: "Enclosed please find my check for ten dollars, doubling my subscription to the National Publicity Campaign. I am glad to subscribe this amount for the good of the cause. I am also glad to say that I have felt the effect of the last year's campaign. I hope to see this work continued, and you may call upon me for subscription yearly. Yours truly, H. E. Reimers."

A press agency, through a regular dispatch, has also seen fit to publish an item dealing with the demand for flowers. The dispatch, sent out from Chicago, which has been widely printed, states that the flower business has had an unprecedented boom in recent months, according to information received, and the situation was declared to obtain not only in Chicago but in all other cities.

Could anyone, in the face of this truthfully assert that our campaign was not producing the results sought? What else could have caused a remarkable stimulation in trade, at a time when it would be least looked for? Not only has it been noticed by our florists, but outside interests, marveling at the condition, think it worth reporting. And yet there are thousands of florists who yet show no sign of willingness to share in the expense which such success entails. By this is meant growers as well as retailers. Take the carnation growers, for instance. We would ask them whether they had ever heard of a demand for carnations such as experienced this season—and also whether they would ever have dreamed of the possibility of such magnificent returns for their products as have been theirs this season. They may say, "Well, not so many carnations have been grown." None will believe this. Very many of the biggest carnation growers, in spite of the fuel restrictions, planted their houses as usual, taking a chance on the lifting of the restrictions—and they won out. Most of the rest curtailed on other plantings, but stuck to their carnations. What was the result—our markets received the usual supply; if there was any diminution, it was negligible. And we have had no

market gluts anywhere, a wonderful statement to make when we think of the gluts of other years.

Still, there are hundreds of carnation growers who have not supported the Campaign Fund. We all know that it is not because they cannot afford to do so.

Our Committees have decided to put into the field representatives from the Society to make personal solicitation of all who have not subscribed. Mr. Louis J. Reuter, one of our life members, has very kindly undertaken to take up such work in New England. The assistance of all in the trade is asked wherever he may travel, in support of Mr. Reuter's efforts to increase the fund, in order that he may cover his territory to the best advantage. He is fully accredited, both in the matter of obtaining subscriptions for the fund, and membership for the Society.

All local committees are urged to redouble their efforts in the interests of the fund. Time is passing, and if we are to have the bumper business next season, which we expect, and which our campaign is surely bringing us, we must complete our plans in time—but our fund must very quickly be advanced to a point which will justify our committees in placing advertising contracts the necessary time ahead.

The following subscriptions have been received and are in addition to those previously announced, annually for four years, unless otherwise stated:

Joseph Sylvester, Oconto, Wis. (1 yr.)	\$5.00
Miss E. F. Kaulbach, Haverhill, Mass.	10.00
James L. Kennedy, Lowell, Mass. . . .	10.00
Swan & Berndtson, Lawrence, Mass.	10.00
Karl S. Brackett, Haverhill, Mass. . . .	15.00
Alfred Wagland, Lawrence, Mass. . . .	10.00
Chas. H. Rice, Lexington, Mass.	10.00
Yaffe Bros., Haverhill, Mass.	25.00
Riedel & Meyer, New York (1 yr.) . . .	50.00
Roman J. Irwin, New York (Add. Sub.)	50.00
Harvey S. Whittemore, Waltham, Mass.	3.00
H. E. Reimers, Spokane, Wash. Add. Sub.)	10.00
Loyd C. Bunch, Freedonia, Kans. . . .	5.00
Theo. F. Kienahs, La Crosse, Wis. (1 yr.)	5.00
Schmid's Greenhouse, Winfield, Kan. . .	5.00
Mrs. B. Paseler, W. Hoboken, N. J. (Add. Sub.)	2.00
Siebrecht Floral Co., Winona, Minn. . .	20.00

\$245.00
Previously reported 36,550.50

Total \$36,795.50

JOHN YOUNG, Secy.

1170 Broadway, New York.

May 31st, 1919.

CUTTING DOWN PRODUCTION COSTS.

Every business concern today faces the problem of cutting down production costs. If the thought "Save!" can be brought home to every employee every few minutes every day for one year, says Percy H. Whiting in *Printers' Ink*, it should be possible to reduce expenses through economy in material and time, the prevention of waste and like methods.

Mr. Whiting suggests a dozen ways to secure, inside the organization, the publicity needed for a thrift movement of this character. He believes it is a job for the advertising man.

First, send each employee, attached to his weekly pay check, a request that he answer two questions: One, What can and will you do to cut down the operating expense of the company? Second, What ways can you suggest that others can cut down expenses? Department heads might be held responsible for an answer from every employee, and a record of answers kept.

Second, each employee might fill in a simple blank weekly, stating how he was able to cut down operating expenses by some short-cut to saving of material and time. Many employees are able to improve methods, but no way of bringing such achievements to the employer's notice has been provided. Employees naturally like credit in such cases, and an opportunity to bring their own good work to light.

Pay envelopes should contain practical economy talks, and where a business concern publishes a house organ that should contain economy articles by department heads, showing ways of saving.

To show employees that their efforts are appreciated articles should be published telling what individuals have done along this line.

In every workroom, stockroom, salesroom, department and branch, posters should be put up making definite appeals for economy, and these should be frequently changed. Little hangers may be put over telephones with such questions as: "Before you put in that telephone call, answer this question—Would it be just as well to write?" Little signs over stamp drawers would ask: "Are you using just as few stamps as the law allows? Are you bunching district stuff? Are

you sending it in the cheapest allowable class?"

Personal letters should be written by executives or department heads, commending every employe who has done anything worth while in the saving line, to let him or her know that such effort is appreciated.

Monthly results of saving in figures can be compiled and published.

Wherever savings can be put in figures, reduce costs, increase profits and actual money, that money should be shared with employes in the form of prizes or bonuses.

An organization permeated with this saving spirit would soon learn to save for itself as well as the boss by watching household expenses in the same way, cutting personal costs, and putting savings aside in War Saving Stamps. On the same plan, if a business concern encouraged personal thrift by employes and investment in War Saving Stamps, the employe who learned to save for himself would quickly see the point of saving for the boss.

TO PROTECT BUYERS.

Bill Against Dealing in Misnamed Fruit or Nursery Stock

Washington—An effort is to be made at this session of Congress to protect purchasers of fruit trees and nursery stock from misbranded goods. A bill has been referred to the House Committee on Interstate and Foreign Commerce, providing fines of not to exceed \$200, imprisonment not exceeding six months, or both fine and imprisonment, for dealing in misnamed stocks in interstate commerce.

This bill will make it a misdemeanor for any person to ship in interstate commerce any nursery stock which does not bear on each tree, shrub or plant, or on the original unbroken package thereof, a label stating the true, accepted and correct name of the variety of such nursery stock, the name of the person who grew it, and the place where grown. Under the head of nursery stock are included all field and greenhouse grown plants, such as fruit trees, fruit tree stocks, trees, shrubs, vines, cuttings, grafts, scions, buds, and all other plants or parts of plants for planting or propagation.—*Newport News*.

IRIS EXHIBITION IN BOSTON.

The first of the two June exhibitions of the Massachusetts Horticultural Society will be held at Horticultural Hall on Saturday and Sunday.

While the principal feature of this exhibition will be the irises, there will

be also displays of other seasonable plants in flower and vegetables. A notable exhibit will be brought in by Miss Grace Sturtevant of Wellesley Farms, consisting mostly of new seedling irises of her own raising. Miss Sturtevant has been very successful in the cultivation of the iris and has attained a wide reputation among horticulturists for her work with this popular flower. The exhibition is free to the public and will be open Saturday from 12 to 6 and Sunday from 1 to 6 o'clock.

NORTH SHORE ROSE EXHIBITION.

A rose exhibition is to be given by the North Shore Horticultural Society at Manchester, Mass., June 25. All entries must be sent in two days before the show. Exhibits must be ready for judging by 12 o'clock noon. Exhibition open to the public at 2 p. m.

While the roses will be most in evidence, there will be entries of other flowers, including Canterbury Bells, Delphiniums, Pyrethrums, Peonies and Sweet Williams. Fruits and vegetables will also be shown.

The officers of the Society for this year:

President, Frank P. Knight; vice-president, Eric H. Wetterlow; treasurer, John Jaffrey; secretary, Leon W. Carter; librarian, Herman Sandford.

Directors—Frank Foster, chairman; Frank P. Knight, Alfred E. Parsons, Herbert Shaw, Eric H. Wetterlow, Axel Magnuson, F. J. Merrill.

Advisory Board—Mrs. W. Scott Fltz, Mrs. Lester Leland, Miss Mary Bartlett, Mrs. W. B. Walker, Mrs. Geo. E. Cabot.

Nominating Committee—William Till, chairman; Otis Bohaker, George L'Anson, Alfred E. T. Rogers, James Gallagher.

Discussion Committee—Alfred E. Parsons, chairman; George L'Anson, Percival C. Veinot.

Exhibition Committee—Alfred E. T. Rogers, chairman; Allen S. Peabody, Martin Eyeberse, Douglas Eccleston, Axel Magnuson.

CLAIMS AGAINST HARTFORD FLORISTS.

In the Supreme Court at Hartford, Conn., last week, it was ordered in the matter of the claims of Mrs. Ellen M. Welch against Welch & Lane, who conducted a florists' business, that \$6,500 be paid to Mrs. Welch on account of her claim of \$11,000. It was stipulated that \$5,000 of the \$6,500 apply on Mrs. Welch's obligation to the Fidelity Trust Company under an endorsement in that sum she made on a note of the firm to the trust com-

pany. The balance of \$1,500 to apply on her personal account against the firm of Welch & Lane. The balance of her claim to remain until certain disputed items of the account are passed upon by the judge.

ST. LOUIS NOTES.

The Retail Association met Monday evening, May 14. Publicity was discussed, also the high prices for Mothers' Day and what influence it had on the general trade. F. C. Weber, Jr., presided and stated that many of his customers refused to pay the prices, but trade was large notwithstanding.

SPECIAL NOTICE TO CANADIAN EXHIBITORS.

Arrangements have been made with the Internal Revenue Office at Detroit whereby Canadian peony growers may send their exhibits free of duty. Simply mark the shipment "For the Peony Exhibition," care of the Michigan Cut Flower Exchange, prepaying express charges.

COMING MEETINGS.

Chicago—American Seed Trade Ass'n, annual convention, June 24 to 26. Secretary, C. E. Kendell, 216 Prospect Ave., Cleveland, O.

Chicago—American Association of Nurserymen, convention, Hotel Sherman, Chicago, June 25-26-27. Charles Sizemore, Louisiana, Mo., Sec'y.

Detroit, Mich.—S. A. F. and O. H. Convention at Acadia Hall, Aug. 19, 20 and 21. Secretary, John Young, 1170 Broadway, N. Y. City.

Hartford, Conn.—Conn. Hort. Society, fall flower show, Sept. 9, 10 and 11. Sec'y Alfred Dixon, Wethersfield, Conn.

New York City.—The American Institute and the American Dahlia Society, exhibition of dahlias in the Engineering Building, 25-33 West 39th St., Sept. 23 to 25. William A. Eagleson, 322-324 West 23d St., Secretary.

San Francisco, Cal.—Dahlia Society of California, Fall show at the Palace Hotel, Sept. 4, 5 and 6.

FLOWERING VIBURNUMS.

Viburnums of the week are the English Traveler's Tree, *Viburnum lan-tana*, and the American Black Haw, *V. prunifolium*. The former is a tall, broad bush, with wide gray-green leaves and large convex clusters of white flowers which are followed by handsome and abundant lustrous fruits, bright red when fully grown,

THE GARDENERS' SECTION

THE JAPANESE WINEBERRY OR RUBUS PHÆNICOLASIUS

A much more interesting berry than the Loganberry is the Wineberry which is found wild in the mountains of central and northern Japan. It is so beautiful in its growth that a friend seeing our plantation of it said that he would like it as a hedge around his house. This pretty effect comes from the contrast between its green, deeply veined leaves and the stiff, bristly red hairs with which the stems and branches are covered. In the spring this beauty of coloring is increased by the young, yellow, green leaves, making a further contrast with the older, darker green leaves which have a light, whitish reverse.

The Wineberry is also interesting on account of its strong individuality of growth. It bears its white blossoms in pyramidal clusters. The red berries, while they are ripening are enclosed by the sepals which fall back when the berry is ripe. The berry resembles the ordinary red raspberry but is smaller than the Cuthbert and has a little more lustre. It comes off the vine with a hollow crown. It has a piquant, individual taste. It is delicious as a dessert and is also good to preserve.

The Wineberry can be multiplied from canes, or from cutting and planting the roots formed by the tips arching back into the soil where they form new growth. We grow it in the same soil as we do other raspberries. For winter protection we turn it in under the soil. Our vines were in good condition after the severe weather of 1917 and 1918.

The berries ripen in July. Last autumn we received a certificate of Honorable Mention from the Massachusetts Horticultural Society for showing the Japanese Wineberry at its exhibition in August.

M. R. CASE,

Hillcrest Farm, Weston.
May 28th, 1919.

VARIATION IN THE COLOR OF ROSES.

A writer in the Garden, the English magazine, has an unusual article on the color of roses, dealing with variations of the same species both outdoors and under glass. He says:

To return to roses, I think they vary in color under different atmospheric conditions outdoors almost, if not quite, as much as they do when

grown under glass. Some red Roses, notably Bardou Job, which should be deep crimson, will produce quite pale pinkish red blooms early in the summer if the nights are still very cold; and we have noticed that brilliant Rose Augustus Hartman is apt to lose much of its fine coloring in autumn when the nights are long and cold. Consider, too, the variability of that lovely Tea Rose Lady Roberts. Last year we had a fine warm May and fine warm weather till well on into June. The effect on Lady Roberts was remarkable. With us her flowers are often scarcely deeper in color than those of Anna Olivier; but last June they were exquisite in the depth of their warm rosy orange tints. They had had less manure than usual, simply because we had none to give them! I saw a great bunch of Lady Roberts, with just the same intense coloring, cut from an old neglected garden where the bushes had been allowed to grow pretty much as they liked. It would seem as if there was something in the weather last June which just suited this Rose, and I should imagine the plants appreciated the more uniform temperature to which they had been exposed for some weeks than is usually their lot in May and the first half of June.

Mme. Ravary, one of the loveliest of apricot yellow Roses in the garden in late June and throughout July, is hardly worth looking at in its autumn flowering, as it becomes a dirty straw color; whereas Mme. Abel Chatenay will go on deepening its vermilion-tinted center till quite late in the autumn.

The old Noisette William Allen Richardson is about as variable in color as a Rose can be. Sometimes, when happy as to position and weather conditions, it is very beautiful in its bright orange hues; at others the color degenerates to a dirty white, when it is not worth growing, as its flowers are always poor in shape and depend for their charm entirely on their coloring. I have never seen William Allen Richardson grown under glass.

It would seem that the yellow Roses are those that benefit most by being grown under glass. I am sure they love warmth and, as far as may be, a uniform temperature. Sunburst is useless except in really warm, dry weather or under glass; then it is lovely with its deep orange center and fine

sturdy stems. Mrs. Arthur R. Waddell and Dorothy Ratcliffe are two varieties that with us are very brilliant in color when grown in the greenhouse, Mrs. A. R. Waddell being an intense orange, and Dorothy Ratcliffe a lovely shell pink. The Pernetiana Arthur R. Goodwin, too, comes a fine color when grown as a pot Rose. But the great advantage of the new race of Pernetiana Roses is that the yellows among them are less affected in their coloring by cold weather than are the Teas and Hybrid Teas.

Blooms of Maréchal Niel and Alice de Rothschild will often increase in depth of coloring if picked and placed in the dark. Why this should be I cannot tell. Neither of these Roses does well when grown outdoors in the neighborhood of London.

In these notes I have not touched on the question of soils and manures, which no doubt affect considerably the colors of Roses. On a rich alluvial soil near Maidenhead, Lady Hillingdon comes of a much deeper orange than it does on our light gravel; and I have seen the China Mme. Eugène Résal so brilliantly tinted in a garden where the subsoil was chalk that I hardly recognized it.

A GOOD VINE.

Among the vines I would like to call attention to the value of the Actinidia vine, which though not extensively used has much merit. It makes a strong heavy growth, and is of no little value for covering porches or used in other situations where a good screen is wanted. Perhaps the most interesting method of using this vine has been developed at Bar Harbor, where on one of the estates it has been made into a wonderfully handsome and effective hedge by being trained over a wire fence. This is the variety *arguta*. A *polygama* is another good variety, but growing it is almost impossible because of its attraction for felines of all kinds and descriptions. It seems to have much the same effect as catnip, except to a greater degree. In any event the animals almost invariably scratch it up as fast as a plant is set out. I have heard it said that in China it is sometimes relied upon when cats become too numerous in a community, a smudge being made which calls the animals from every direction and stupefies them so that they can easily be picked up and disposed of by the wholesale.

PLANT TREES

By E. H. Wilson.

"To plant trees is merely to plant for the benefit of one's unknown grandchildren" or some variation of this phrase is frequently urged as an excuse for not planting trees. The kindest interpretation that can be given this statement is that it is prompted by ignorance of the facts. It has become a cant phrase which, unfortunately, lazy or thoughtless persons accept as a truism. On analysis, it is found to be utterly fallacious though specious and its acceptance is unworthy of an educated mind. To plant trees is assuredly laying up treasures for one's grandchildren and even for their children; it is also doing the same for one's sons and, what is more to the point—particularly the viewpoint of a selfish protagonist—it is providing abundant pleasure for oneself. If properly planted in soil duly prepared seedling trees grow amazingly fast. A little patience is necessary at first but after four or five years the results begin to show and year by year they become more manifest.

I am minded to write this on the conclusion of a delightful visit to the famous Hunnewell pinetum at Wellesley, Mass.—a place well known to readers of *HORTICULTURE*, a tree lover's mecca whose fame is known on three continents at least. With the son, grandson and granddaughter of the founder of this wonderful garden and their head gardener as genial guides, I revelled among the delightful trees! trees three years since last I saw them and it was perfectly obvious to me that the trees had made good use of the time. As we walked around I found it increasingly difficult to realize that the many magnificent trees—White Pine, Elm, Oak, Maple etc., had all been planted during the lifetime of the gentleman by whose side I tramped. I measured one White Pine over four feet in diameter, an Elm over five feet; hundreds of the trees from eight to one hundred feet tall in the fullness of their prime, flourishing and giving the lie to all who would claim that life is too short to plant trees and see the results. The owner pointed out the only tree (a big White Oak) which

grew on the place when his father first began to plant in 1852. Today it is by no means the largest tree on the place, but it is most tenderly nurtured to prolong its obviously declining years.

To have converted a sun baked, gravelly waste into a verdant, well-wooded park, is in itself no mean performance. To have founded such a splendid collection of conifers is another, and to have seen them grow into specimens rivalling their parents on their native heath—all after the prime of his life was reached—should be an encouragement to men of less lofty ideals and courage.

Yes, it takes courage to plant trees but the reward is certain a hundred-fold. Of a surety the spirit of its founder, Mr. Horatio Hollis Hunnewell, hovers over the scenes of his benevolent labors and takes pleasure in the delights of those who now enjoy the results of his handiwork and of those who will enjoy them as the years roll on.

MICHELL'S PRIMULA SEED

PRIMULA CHINENSIS

(Chinese Primrose)

	½ tr. pkt.	tr. pkt.
MicHELL's Prize Mixture. An even blending of all colors.	\$0.60	\$1.00
Alba Magnifica. White.	.60	1.00
Chiswick Red. Bright red.	.60	1.00
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RAMBLING OBSERVATIONS OF A ROVING GARDENER

I notice that Friend Barron in the last issue of the Garden Magazine has some mild strictures on the failure of American nurserymen to stock up with the lesser known plants on the plea that there is no demand. No doubt there is some truth in what is said. Nurserymen in general are not as progressive, perhaps, as they might be. Yet there are two sides to the question, and sometimes the buying public proves remarkably unresponsive when efforts are made to popularize new and extraordinarily good offerings. Take the American Pillar climbing rose, for example. In my estimation this is the finest of all the single flowered climbers. The beauty of a large plant in full bloom almost takes one's breath away when one sees it for the first time. It is an incomparable garden subject, yet Mr. Robert Pyle, of Conard & Jones, has told me that they worked for years to get people buying this rose. It became well known and widely planted across the water long before anything like a wide demand could be created here. This sort of thing is of course decidedly discouraging. Fortunately the American Pillar rose is at last being accepted at its full value.

With Rosa Hugonis, as it happens, a little different experience has been encountered. But this fact is due probably to the somewhat romantic manner in which the rose was introduced and the large amount of newspaper and magazine space which has been given it. The writer has had a share in popularizing this rose, and probably its best advertising has come through the magnificent specimen flowering each season at the Arnold Arboretum, where large numbers of people see it.

One mistake has been made in some of the magazine advertising. Father Hugo's rose was not discovered or introduced by E. H. Wilson, as is often stated. Mr. Wilson has enough good plants to his credit; and the real discoverer of this Chinese rose was an English missionary, Father Hugo Scanlon, whose name it bears. It was first propagated in England, from which country plants were sent to America. The Veitch's have a large stock, from whom American nurserymen obtained their plants.

The tardiness with which the public responds to new offerings in many

instances may be illustrated by the handsome Japanese tree called *Acanthopanax ricinifolium*. For years the Elm City Nurseries of New Haven, Connecticut, have been stocked with this splendid tree, and yet the sales have been much fewer than the merits of the tree would warrant. Perhaps the name is a drawback with the general buying public, but it shouldn't interfere with the appreciation of large estate owners or park superintendents. There are few trees that can be grown in the northern states capable of creating such a suggestion of the tropics as this *Acanthopanax*. It is a very graceful yet stately tree with large leaves suggesting those of the castor bean. It is really a member of the *Aralia* family, and in July it produces enormous flower heads, greenish-white in color, and sometimes measuring a foot across.

In some instances trees which are not common in cultivation appear in most unexpected places. Not long ago a Cedar of Lebanon cone was sent to Professor Charles S. Sargent from one of the western states where there was no reason to suppose that a specimen had even been planted. There is no question as to the character of the cone, and it would be interesting to trace the history of the particular tree from which it came. As a matter of fact, though, good specimens of Cedars of Lebanon are to be found here and there in different parts of the country. An unusually large and aged tree of this species is located in one of the cemeteries at Wilmington, Delaware, where it has become somewhat of a landmark.

Not for weeks have the *Wisterias* bloomed so freely as this season, at least in New England. They have been making a remarkable display for the last two weeks. Much depends, though, upon the way in which these vines are used as to the effects which they produce. A few days ago I saw a very large white specimen growing on the side of a white house. Naturally it did not make anything like the appeal to the eye which it would have made with a different sort of background. The same day I saw another and even larger specimen growing on an old tree where it produced a stunning effect. When the growth is weak, as is often the case with *Wisterias* growing over porches and buildings,

the plants have a moth-eaten appearance when in bloom that is not very satisfactory. They are rather better after all on a pergola or similar structure with a background of green trees. I notice that the catalogues are still divided as to the spelling of the name. Perhaps the majority spell it with an A instead of an E, that is *Wistaria*. Now while this vine was really named for Caspar Wistar, who spells his name Wistar, Nuttall, author of the genus, spelled the plant's name *Wisteria*, which is now considered correct, and is so given in Bailey's encyclopaedia. According to Mr. Wilson, *Wisterias* are never seen at their best in this country. It is in Japan that they flourish, especially when planted along the water courses, blossoms which measure a yard in length not being uncommon.

Amateur gardeners and even professionals often have their patience tried by the frequent changes in names or the spelling of names given the common plants by the authorities who write the reference books and manuals. These changes sometimes seem wholly unnecessary as well as most confusing. They are made, however, with a purpose. At a convention some days ago it was agreed that the name first given to any plant should be the one adopted. Now it frequently happens that experts discover that a plant well known under a certain name was discovered and given another name at a previous date. Under the rules this first name must prevail, and the change is automatically made. Whether all this is justified or not is not a point to be discussed here, but this is the explanation of changes which seem almost absurd.

A good case in point is the shrub commonly known as Japanese Quince. This plant is widely used in suburban gardens, as everybody knows, and is catalogued very generally as a *Cydonia*. Sometimes, though, it is classed as a *Pyrus*, and not one garden maker out of fifty knows what plant is referred to when the name of *Chaenomeles* is used. Yet this is the name under which it is indexed in Bailey's encyclopaedia. This name has been adopted because it was the original name, so far as is known, having been given to the plant by Thunberg, who supposed that the fruits split into five valves. He used the Greek words "chainein" which means to split and "melia" which means apple. This, of course, is highly scientific and conforms to the rules of the game, but it certainly adds to the confusion of the purely practical man.

VALUABLE VIBURNUMS FOR THE GARDEN

While a few Viburnums are in common cultivation, there are others and among them some very good species which are wholly neglected. Among them are four native American species, the value of which for border and roadside plantations is well illustrated at the Arnold Arboretum, where they are used in large numbers.

The earliest to bloom is *V. dentatum*, which has broad flat clusters of white flowers. This is a common roadside shrub in the northeastern part of United States.

Viburnum cassinoides is the second of the four to flower. Its native habitat is the swamps of New England where it sometimes grows twenty feet high. In cultivation it remains a low bush, and is a plant which can be

recommended with confidence for use in small gardens as well as on large estates. It has several peculiar merits. For one thing its thick lustrous leaves give it a good appearance all summer. The flowers, which are borne in slightly convex clusters, are not any handsomer than those of other kinds, but in the fall when the fruit comes the plant takes on a unique appearance. This fruit is larger than that of the other summer flowering species native to America, and while green at first gradually turns to pink and then becomes blue-black. It usually happens that some of the fruits have reached the final stage while others are still green, so that green, pink and blue berries are to be found on the same plant, and even in the same cluster.

This characteristic makes *V. cassinoides* one of the most interesting of the fall fruiting shrubs. There is another characteristic of the plant which is worth noting, and that is the curious variation in the shape of the leaves and the size of the flower clusters.

The third of the native Viburnums to come into bloom is *V. venosum*. It is much like *V. dentatum*, but blooms two weeks later. It is not widespread, growing naturally only along the northern Atlantic coast. It probably will not prove of much interest to nurserymen, but the last of the four to bloom, *V. candyi*, is a decidedly worthwhile species. It is a native of eastern Pennsylvania, and is also found west as far as central Indiana.

(Continued on page 551)



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(Continued from page 547)

Some pains has been taken at the Arnold Arboretum to illustrate the value of these American Viburnums for planting in parks and gardens. It has been shown that they can be improved greatly by cultivation, and that with good treatment they will grow into large and remarkably attractive plants. There are a few other American Viburnums, but they are of less importance as garden ornaments.

Then there is the group of Viburnums from western Asia which have considerable value, although they are rather inferior on the whole to the American species mentioned. *V. Sargentii* is among the best of the foreigners, and is a very handsome plant. It belongs to the opulus group with sterile flowers forming a ring around the inflorescence. These flowers are larger on *Viburnum Sargentii* than on the American and European species of this group. It is not so handsome in the fall, though, as the fruits are smaller and less brilliant in color.

The Asiatic *V. tormentosum*, which is found in both Japan and western China makes a shrub of considerable size and bears large numbers of flat flower clusters surrounded by rings of ray flowers. Professor Sargent of the Arboretum considers this one of the handsomest shrubs which has been brought from eastern Asia to the gardens of this country. The snowball form commonly catalogued as *Viburnum plicatum* should be named, to be correct, *V. tormentosum* var. *dilatatum*. There is a Chinese snowball called *V. macrocephalum*, with pure white, sterile flowers in larger heads than those of other snowballs. It is hardy and free flowering, but as it is not a vigorous or a long lived plant, is not to be recommended to nurserymen or for garden culture. Yet a few very fine specimens are to be found in America. Probably the best of all is in a garden near Wilmington, Delaware. It is 12 feet high and 15 feet broad. Nearby is a second specimen 10 by 13 feet. Estate owners who are willing to spend money for brief effects no doubt will be pleased with plants of this species.

Viburnum Seiboldii is a fast growing and hardy plant, probably one of the best of the Asiatic species for this climate, although its leaves when crushed throw off a very disagreeable odor. *V. dilatatum* is a handsomer plant, and is especially desirable for the bright red fruit which it produces in the fall, making it a fine addition to the autumn garden.

There are other species from the far east but the most meritorious have been mentioned, with the possible ex-

ception of *Viburnum Carlesii*, which flowers very early in the season, and is worthwhile planting because of its sweet perfume, even though it is not particularly attractive after the flowering season is passed. As a novelty it is certain to sell, and probably will be distributed more widely than any of the other Asiatic species.

BUSH HONEYSUCKLES.

Prof. C. S. Sargent of the Arnold Arboretum says:

"For northern gardens there are no more beautiful plants than some of the Bush Honeysuckles, with their myriads of yellow, white, rose color or red flowers which in summer or autumn are followed by lustrous, usually scarlet fruits. Nearly all of these shrubs are able to show their greatest beauty in this climate, but this can be obtained only by planting them in rich soil and with sufficient space for free growth in all directions. In poor soil and when crowded by other plants they are usually miserable objects. The large growing kinds like the different forms of *L. tatarica*, the hybrids *L. bella* and its varieties with white and with rose-colored flowers, and *L. notha*, should be planted as isolated specimens at least twenty feet from any other plant. *L. Morrowi*, a plant of the Amoor region in eastern Siberia, requires even more space, for its lower branches which cling close to the ground naturally spread over a great area. This shrub has gray-green foliage, comparatively large white flowers and bright red fruits. It is one of the most useful of the early introductions of the Arboretum into the United States and has been largely planted in the Boston parks. Like many other bush honeysuckles, *L. Morrowi* hybridizes easily with other species, and most of the plants raised from seeds, now sold by American nurserymen as *L. Morrowi*, are hybrids of this species with *L. tatarica* and are erect growing plants of little value for those who want plants with the peculiar habit of *L. Morrowi*. Among the less vigorous growing plants attention is called to two hybrids of *L. Korolkowi* in the collection, *L. amoena* and *L. Arnoldiana*. These have small gray-green foliage and small, bright pink and very attractive flowers, and are, perhaps, not surpassed in grace and beauty by any honeysuckles in the collection."

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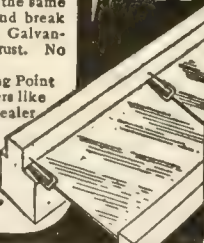
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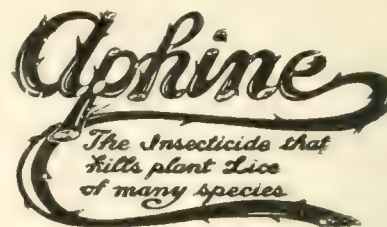
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COMING EXHIBITIONS.

Will secretaries please supply any omissions from this list and correct dates that have been altered:

June 13, Providence, R. I.—Exhibition of roses and spring flowers of the Rhode Island Horticultural Society. E. K. Thomas, secretary, Kingston, R. I.

June 21-22, Boston, Mass.—Exhibition of roses and peonies of the Massachusetts Horticultural Society. Wm. P. Rich, secretary, Horticultural Hall, Boston.

June 21-22, New York—Annual meeting and exhibition of the American Sweet Pea Society at American Museum of Natural History. Wm. Gray, secretary, Bellevue road, Newport.

June 24-25, Jenkintown, Pa.—Exhibition of sweet peas, hardy perennials and hybrid perpetual roses of the Pennsylvania Horticultural Society. David Rust, secretary, 606 Finance Building, Philadelphia.

June 25-26, Newport, R. I.—Summer show of the Newport Horticultural Society at Convention Hall. Fred P. Webber, secretary, Melville, R. I.

July 5-6, Boston, Mass.—Exhibition of sweet peas of the Massachusetts Horticultural Society. Wm. P. Rich, secretary, Horticultural Hall, Boston, Mass.

August 9-10, Boston, Mass.—Exhibition of gladioli and phlox by Massachusetts Horticultural Society. Wm. P. Rich, secretary, Horticultural Hall, Boston.

September 4-6, San Francisco, Cal.—Annual show of the Dahlia Society of California at Palace Hotel. F. C. Burns, secretary, San Rafael.

September 9-11, Hartford, Conn.—Fall flower show of the Connecticut Horticultural Society. Alfred Dixon, secretary, Wethersfield, Conn.

September 11-14, Boston, Mass.—Dahlia, fruit and vegetable exhibition of the Massachusetts Horticultural Society. Wm. P. Rich, secretary, Horticultural Hall, Boston.

September 16-17, Ardmore, Pa.—Exhibition of dahlias, outdoor cut flowers and vegetables of the Pennsylvania Horticultural Society. David Rust, secretary, 606 Finance Building, Philadelphia.

September 18-19, Providence, R. I.—Dahlia show of the Rhode Island Horticultural Society. E. K. Thomas, secretary, Kingston, R. I.

September 23-25, New York—Dahlia exhibition under the auspices of the American Institute of the City of New York and the American Dahlia Society at the Engineering Society building, 25-33 West 39th street. Wm. A. Engleson, secretary board of managers, 322 West 23rd street, New York.

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS		Last Part of Week ending May 31 1919	First Part of Week beginning June 2 1919
American Beauty, Special	20.00 to 35.00	10.00 to 20.00	10.00 to 20.00
" " Fancy and Extra	12.00 to 20.00	6.00 to 10.00	6.00 to 10.00
" " No. 1 and culls	2.00 to 10.00	1.00 to 5.00	1.00 to 5.00
Russell, Hadley	3.00 to 10.00	2.00 to 15.00	2.00 to 15.00
Killarney, Ward	2.00 to 6.00	1.00 to 4.00	1.00 to 4.00
Radiance, Taft, Key	3.00 to 25.00	2.00 to 15.00	2.00 to 15.00
Ophelia, Sunburst	2.00 to 10.00	1.00 to 6.00	1.00 to 6.00
Carnations	3.00 to 8.00	1.00 to 2.00	1.00 to 2.00
Cattleyas	20.00 to 50.00	20.00 to 75.00	20.00 to 75.00
Lilies, Longiflorum	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00
Lilies, Speciosum	8.00 to 16.00	8.00 to 12.00	8.00 to 12.00
Callas	4.00 to 6.00	1.00 to 2.00	1.00 to 2.00
Iris	2.00 to 6.00	12.00 to 15.00	12.00 to 15.00
Lily of the Valley	2.00 to 6.00	.50 to 1.00	.50 to 1.00
Snapdragon	2.00 to 1.00	.20 to .50	.20 to .50
Pansies	.50 to 6.00	5.00 to 20.00	5.00 to 20.00
Daffodils	5.00 to 25.00	2.00 to 3.00	2.00 to 3.00
Calendula	3.00 to 6.00	.50 to 4.00	.50 to 4.00
Stocks	2.00 to 3.00	1.00 to 2.00	1.00 to 2.00
Wallflowers	2.00 to 3.00	1.50 to 3.00	1.50 to 3.00
Mignonette	.75 to 2.00	.50 to 1.00	.50 to 1.00
Sweet Peas	2.50 to 4.00	.25 to 3.50	.25 to 3.50
Violets	1.00 to 2.00	.25 to 1.00	.25 to 1.00
Marguerites	6.00 to 25.00	5.00 to 25.00	5.00 to 25.00
Gardenias	.75 to 1.25	.50 to 1.00	.50 to 1.00
Adiantum	6.00 to 12.00	3.00 to 8.00	3.00 to 8.00
Gladioli	15.00 to 30.00	15.00 to 20.00	15.00 to 20.00
Asparagus Plumosus, & Spreng (100 bunches)			

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON June 2		ST. LOUIS June 2		PHILA. June 2	
Roses						
Am. Beauty, Special	35.00 to 50.00	50.00 to 60.00	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00
" " Fancy and Extra	20.00 to 35.00	25.00 to 40.00	20.00 to 30.00	20.00 to 30.00	20.00 to 30.00	20.00 to 30.00
" " No. 1 and culls	1.00 to 6.00	5.00 to 15.00	8.00 to 15.00	8.00 to 15.00	8.00 to 15.00	8.00 to 15.00
Russell, Hadley	2.00 to 8.00	8.00 to 35.00	8.00 to 25.00	8.00 to 25.00	8.00 to 25.00	8.00 to 25.00
Killarney, Ward	2.00 to 8.00	6.00 to 10.00	3.00 to 6.00	3.00 to 6.00	3.00 to 6.00	3.00 to 6.00
Radiance, Taft, Key	2.00 to 8.00	4.00 to 8.00	4.00 to 10.00	4.00 to 10.00	4.00 to 10.00	4.00 to 10.00
Ophelia, Sunburst	2.00 to 4.00	3.00 to 5.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Carnations	25.00 to 5.00	50.00 to 75.00	75.00 to 100.00	75.00 to 100.00	75.00 to 100.00	75.00 to 100.00
Cattleyas	16.00 to 25.00	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00
Lilies, Longiflorum	8.00 to 20.00	..... to .....	..... to .....	..... to .....	..... to .....	..... to
Lilies, Speciosum	12.00 to 25.00	15.00 to 20.00	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00
Callas	2.00 to 4.00	8.00 to 10.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00
Iris	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00
Lily of the Valley	4.00 to 12.00	4.00 to 6.00	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00
Snapdragon	.25 to 1.00	..... to	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00
Pansies	6.00 to 8.00	5.00 to 6.00	..... to .....	..... to .....	..... to .....	..... to
Daffodils	1.00 to 2.00	2.00 to 4.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Calendula	8.00 to 10.00	5.00 to 8.00	.90 to 1.75	.90 to 1.75	.90 to 1.75	.90 to 1.75
Stocks	3.00 to 4.00	..... to .....	..... to .....	..... to .....	..... to .....	..... to
Wallflowers	1.00 to 1.50	2.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Mignonette	1.00 to 2.00	.30 to .75	1.00 to 3.00	1.00 to 3.00	1.00 to 3.00	1.00 to 3.00
Sweet Peas	.75 to 1.00	.35 to 1.00	..... to .....	..... to .....	..... to .....	..... to
Violets	1.00 to 2.00	1.50 to 2.00	.50 to 1.75	.50 to 1.75	.50 to 1.75	.50 to 1.75
Marguerites	25.00 to 50.00	..... to	30.00 to 40.00	30.00 to 40.00	30.00 to 40.00	30.00 to 40.00
Gardenias	1.00 to 1.50	10.00 to 12.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Adiantum	16.00 to 25.00	5.00 to 12.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00
Gladioli	20.00 to 50.00	35.00 to 100.00	50.00 to 60.00	50.00 to 60.00	50.00 to 60.00	50.00 to 60.00
Asparagus Plumosus, & Spreng (100 Bchs.)						

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI June 2		CHICAGO June 2		BUFFALO June 2		PITTSBURG June 2	
Roses								
Am. Beauty, Special	50.00 to 60.00	50.00 to 60.00	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00
" " Fancy and Extra	30.00 to 40.00	35.00 to 40.00	30.00 to 40.00	30.00 to 40.00	30.00 to 40.00	30.00 to 40.00	30.00 to 40.00	30.00 to 40.00
" " No. 1 and culls	8.00 to 25.00	12.00 to 15.00	3.00 to 15.00	3.00 to 15.00	6.00 to 10.00	6.00 to 10.00	6.00 to 10.00	6.00 to 10.00
Russell, Hadley	10.00 to 25.00	5.00 to 30.00	12.00 to 20.00	12.00 to 20.00	8.00 to 25.00	8.00 to 25.00	8.00 to 25.00	8.00 to 25.00
Killarney, Ward	6.00 to 15.00	5.00 to 15.00	5.00 to 15.00	5.00 to 15.00	6.00 to 15.00	6.00 to 15.00	6.00 to 15.00	6.00 to 15.00
Radiance, Taft, Key	10.00 to 25.00	5.00 to 25.00	6.00 to 12.00	6.00 to 12.00	8.00 to 15.00	8.00 to 15.00	8.00 to 15.00	8.00 to 15.00
Ophelia, Sunburst	8.00 to 25.00	5.00 to 15.00	6.00 to 15.00	6.00 to 15.00	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00
Carnations	4.00 to 5.00	6.00 to 12.00	2.00 to 4.00	2.00 to 4.00	6.00 to 10.00	6.00 to 10.00	6.00 to 10.00	6.00 to 10.00
Cattleyas	75.00 to 100.00	60.00 to 80.00	75.00 to 85.00	75.00 to 85.00	100.00 to 125.00	100.00 to 125.00	100.00 to 125.00	100.00 to 125.00
Lilies, Longiflorum	20.00 to 25.00	15.00 to 20.00	15.00 to 20.00	15.00 to 20.00	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00
Lilies, Speciosum	..... to .....	..... to	8.00 to 10.00	8.00 to 10.00	..... to .....	..... to .....	..... to .....	..... to
Callas	15.00 to 20.00	12.00 to 18.00	15.00 to 25.00	15.00 to 25.00	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00
Iris	6.00 to 8.00	15.00 to 20.00	8.00 to 10.00	8.00 to 10.00	1.00 to 8.00	1.00 to 8.00	1.00 to 8.00	1.00 to 8.00
Lily of the Valley	6.00 to 8.00	5.00 to 8.00	4.00 to 10.00	4.00 to 10.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00
Snapdragon	8.00 to 15.00	10.00 to 20.00	6.00 to 15.00	6.00 to 15.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Pansies	1.00 to 1.50	.50 to 1.00	.40 to 1.00	.40 to 1.00	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00
Daffodils	2.00 to 4.00	3.00 to 6.00	2.00 to 5.00	2.00 to 5.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
Calendula	2.00 to 3.00	3.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
Stocks	4.00 to 8.00	6.00 to 12.00	3.00 to 6.00	3.00 to 6.00	..... to .....	..... to .....	..... to .....	..... to
Wallflowers	..... to	1.00 to 2.00	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....	..... to
Mignonette	..... to 8.00	6.00 to 8.00	3.00 to 5.00	3.00 to 5.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Sweet Peas	1.00 to 1.50	1.00 to 2.50	.75 to 2.00	.75 to 2.00	.75 to 2.00	.75 to 2.00	.75 to 2.00	.75 to 2.00
Violets	..... to 3.00	1.00 to 2.00	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Marguerites	2.00 to 3.00	1.00 to 2.00	1.00 to 1.50	1.00 to 1.50	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Gardenias	..... to 15.00	15.00 to 25.00	20.00 to 25.00	20.00 to 25.00	..... to .....	..... to .....	..... to .....	..... to
Adiantum	..... to 1.00	1.00 to 1.25	1.00 to 1.25	1.00 to 1.25	1.50 to 2.00	1.50 to 2.00	1.50 to 2.00	1.50 to 2.00
Gladioli	10.00 to 15.00	5.00 to 12.00	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....	..... to
Asparagus Plu. & Spreng (100 Bhs.)	25.00 to 50.00	50.00 to 100.00	35.00 to 50.00	35.00 to 50.00	40.00 to 75.00	40.00 to 75.00	40.00 to 75.00	40.00 to 75.00

A FEW SEASONABLE SUGGESTIONS.

If time only permitted, one could write about many things, but at this time of the year every commercial and private grower's time is fully taken up. However, here are a few seasonable suggestions from the Canadian florist which may be of interest.

Canterbury Bells

A common mistake is made by many growers in sowing the seed of these beautiful biennials too late. Many sow them towards the last of July, or even later, and expect the plants to bloom strongly next season. A small proportion will probably do so but they will never equal those sown earlier. Canterbury bells are handsome border plants, but are even finer in pots when grown cool and given the necessary space for their proper development. Some are seen at Easter, but never of the quality obtainable later in the season. Nice plants may be had in seven-inch or eight-inch pots or tubs nicely staked up. These are very much admired by all observers, and are not difficult to grow as compared with many other plants.

To secure good plants for flowering next year, sow the seed at once; then transplant into flats and later plant outdoors in well-manured ground, allowing twelve inches between the rows. For pot culture, dig up and pot about the middle of October. The singles are better for pot culture and also for cutting than either the double or various other varieties.

Snapdragon

The grower who wants a fall crop of snapdragon must lose no time in rooting some cuttings, or if he has no stock of such varieties as the public wants he should secure some from a grower who specializes in these charming and increasingly popular plants. Cuttings rooted now should be set out in strawberry boxes or four-inch paper pots. These sunk in the rows can be lifted with a good ball of earth in August, when the time for planting indoors arrives. Of course they can be successfully lifted without much earth, but greater care is necessary. The use of four-inch paper pots is good, as they are pretty well decayed at lifting time, and will permit the plants being lifted with plenty of soil.

Lorraine and Cincinnati Begonias

There is still time in which to take cuttings of Lorraine and Cincinnati begonias and secure nice, salable stock in four-inch and five-inch pots or pans next fall. The old stock plants are now growing freely and so good succulent cuttings are obtainable.

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New Peony Dahlia—John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

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There is usually a surplus of the larger sizes of begonias at Thanksgiving and Christmas and a deficiency in the supply of the smaller plants. The cuttings will root quite easily now, where they can have some bottom heat. The earlier propagated plants and leaf cuttings should not be neglected, but should be given a shift before the roots are matted around the side of the pot. Do not give too heavy a soil. They thrive best in a compost containing considerable leaf mould. As much of this as of loam should be used, with a dash of sand added to keep it porous. It is evident that Lorraine begonias are being grown on a smaller scale. The large specialists are devoting their attention to Cincinnati. For the private man, however, it cannot be equalled for hanging-pans and baskets.

Poinsettias

If poinsettias have not been started yet, it is time to do so. Cut back the canes somewhat as the plants will then break more vigorously. Do not water too freely or some of the plants are likely to rot. It is better not to place them in too warm a house, as this makes the shoots soft. In a moderately cool house a nice stock of cuttings are produced and these taken off, while quite short, with a heel will root without much trouble. Shoots, however, which have been allowed to get too long and have to be cut below a leaf are more liable to damp off unless great care is exercised in watering and shading.

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CHESTNUT TREES DOOMED.

The chestnut tree bark disease seems likely to rob New England of these fine trees. According to Frank W. Rane, state forester, authorities long ago gave up any hope of finding a practical method of stopping the spread of infection.

The disease not only kills the trees, but makes the timber from dead trees inferior. All that representatives of the forester's department can do is to learn the situation of the area where the infection has made its most recent appearance and see that the chestnut is cut down and converted into timber before the disease has made headway enough to kill the tree.

"Much chestnut, for instance, is used for railroad ties," said Mr. Rane. "A good chestnut tie will furnish service for about eight years.

"Railroad men say, however, that the wood of chestnut trees attacked



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by the disease deteriorates even before the death of the tree in that ties cut from such trees, will not hold spikes as well as do those from uninfecting trees.

"Any chestnut that is allowed to stand until the disease kills the tree will be a dead loss."

The chestnut growth of the state begins in the Berkshires in the western part of the state, skips the Connecticut valley and then continues through central Massachusetts and east into parts of Norfolk and Middlesex counties. The infection is general.

Sound chestnut lumber, which can only be obtained before the disease has made any headway on the trees, is used in bridge and building construction, for railroad ties, and in the manufacture of agricultural implements, boxes and crates, furniture, house finish and stair work, slack cooperage and toys.

The last pamphlet issued by the state forester on the subject relates that the disease is caused by a fungus parasite known as *Diaporthe Parasitica* Murrill and supposed to have been brought to this country with the Japanese chestnut. It was first recognized as a serious disease in the vicinity of New York city in 1904.

Tiny spores of the fungus gain entrance into any part of the trunk or limbs and cause spreading sores or lesions. If the part attacked happens to be the trunk the tree is often killed in a season. If branches are attacked only those branches are killed and the remainder of the tree may survive for several years.

The fungus girdles a trunk or limb, grows through the bark and sometimes covers it with reddish-brown pustules, which produce spores. The leaves change color and soon wither. The tree fights gamely and as the disease progresses sends out its defiance in the form of green sprouts on the trunk and near the base, but these in turn have to succumb to the deadly fungus, which slowly sucks out the life of the tree to live in temporary and parasitical luxury.

The disease, the pamphlet says, is spread by the spores of the fungus, mi-

croscopic "dust-like" bodies like seeds, spread by rain to other parts of the infected tree and carried by insects, birds and rodents to other trees. The disease attacks only living chestnut trees and apparently leaves others alone.

MAGNOLIAS IN THE ARNOLD ARBORETUM

Several of the American magnolias trees are in bloom in the group on the right-hand side of the Jamaica Plain gate. Unlike most of the Asiatic species the American Magnolias flower after the appearance of the leaves; they are hardy and handsome trees. A hundred and fifty years ago letters of English plant lovers written to their American correspondents contained many appeals for Magnolia plants and seeds, and in the early years of the nineteenth century these trees were to be found in the principal collections of plants in the middle states. To the present generation they are almost unknown, and it is only in a few American nurseries that an occasional plant of one or two of the species can be found. There are six of these Magnolias, but one of them, *M. pyramidata*, grows only in the extreme southeastern corner of Alabama and adjacent Florida, and would not be hardy here. Of the other species, the so-called Mountain Magnolia, *M. Fraseri*, is the first to open its flowers in the Arboretum. It is a small tree rarely more than forty feet high, with an open head of long branches, leaves often a foot in length and deeply divided at the base, and creamy white, sweet-scented flowers eight or ten inches in diameter and very conspicuous as they stand well above the crowded leaves at the ends of the branches. This Magnolia is a native of the southern Appalachian Mountain region, and, although it has not been found growing north of southeastern Virginia, is perfectly hardy in eastern Massachusetts. The next to flower is *M. cordata* which for several days has been covered with its cup-shaped, bright canary yellow flowers unlike in color those of any other

Magnolia. There is an interesting story connected with this tree. It was discovered toward the end of the eighteenth century by the French botanist and traveler, Michaux, on one of his journeys from Charleston, South Carolina, up the valley of the Savannah River to the high Carolina Mountains. By Michaux it was introduced into French gardens where it flourished. For more than a century every attempt to rediscover this tree failed, and it is only within the last five or six years that it was found by the Berckmans Brothers growing in the woods not many miles distant from Augusta, Georgia, where plants only a few feet high flower profusely. Grafts from Michaux's trees, however, preserved this tree in cultivation, and the plants in the Arboretum were raised from grafts taken from old trees in the Harvard Botanic Garden for which they were imported from Europe probably when the garden was laid out, that is, more than a century ago or not long after Michaux had discovered and introduced this tree.—*Arboretum Bulletin*.

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HORTICULTURE

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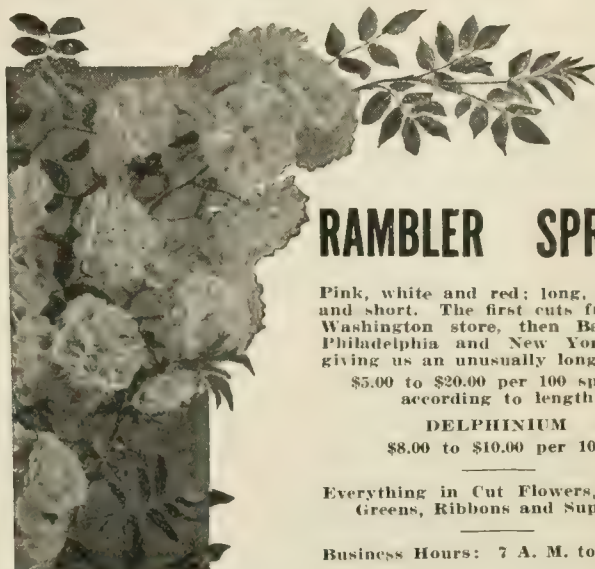
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RAMBLING OBSERVATIONS OF A ROVING GARDENER

Peony and iris shows have been well patronized this year, and the exhibitions have been particularly fine, although the hot sun of last week caused the more delicately shaded peonies to fade to a marked degree. Exhibition peonies cut in the bud and allowed to unfold indoors have been very highly colored this season. It may be that the time will come when the recommendations of William Rollins will be generally observed. Mr. Rollins believes and urges that peonies for exhibition be grown in pots in the same way as chrysanthemums, claiming that in no other way can perfect blooms be obtained for the show room. He says this even after making elaborate experiments with cloth shelters in his peony gardens. Yet this does not mean that the shelters have not been beneficial. The fact is that they have proved of great value and have justified the expense put into them.

There is one point which is being emphasized by this season's shows, and that is the superfluity of varieties. There are scores of peonies which might just as well be discarded, and this statement holds true, although perhaps in a lesser degree, of the irises. At some of the iris shows this season many seedling varieties have been exhibited, and it has been a question if most of them were any improvement over varieties already in commerce.

It is a pretty well accepted fact among peony growers, however, that there are too many varieties, and that a weeding out process ought to be undertaken on a national scale. This is not a new argument to present. While the late Mr. Stewart was alive, he used his trenchant pen to urge a reform which would mean doing away with obsolete peony varieties, pointing out that it would be a matter of progress to select the best form of each color or distinct shade of color and of the early and later flowering types. Even though a sharp policy of elimination should be adopted, there would still be enough varieties left of all classes to satisfy everybody.

As Mr. Stewart also pointed out, some growers cling to certain kinds which are of the easiest propagation, even though they may be rather inferior in quality of bloom. Of course this is not for the best interests of

peony devotees. The principal thing is to have the best kinds for our gardens, and in point of fact, most of the good kinds are very vigorous growers.

At the Boston iris show last Saturday, there was one flower of outstanding supremacy. It was called Lord of June, being of phenomenal size, splendid texture, and exquisite coloring, light blue, and was exhibited by Mr. Chase of Andover. Mr. Chase is a man of the type most needed in developing horticulture for the masses. He is a business man and grows peonies as a hobby, selling only in a small way. He is as critical as an orchid expert, and as skillful in breeding as most commercial growers.

It may be that he will develop into a grower of national prominence, for some of the leading flower growers of the country have been developed through just such a channel. Bertrand Farr of Wyomissing, now among the most prominent peony and iris growers in the world, was originally in another line of work and gradually developed his nursery business through his love of the iris. Arthur Cowee, of Berlin, N. Y., who grows gladioli by the ton, was formerly a coal merchant. It would be easy enough to extend this list until it became a lengthy one, for the lure of choice plants has wrought the evolution of many an amateur into a commercial grower.

Perhaps it is not realized by most gardeners that the Mahonia or Oregon grape is included in the ban which has been placed on the barberry. It is stated that this plant carries the wheat rust in just the same way as the barberry, and consequently should be exterminated in every wheat growing section. This is rather unfortunate, for the Oregon grape is to be valued more highly than the common barberry. The latter can be replaced to advantage by the Japanese barberry, which has been given a clean bill of health, and may be planted freely. The Oregon grape is really a beautiful plant, although its decorative value has perhaps never been appreciated outside of the northwest. Usually it is badly winter killed in New England, but it went through last winter practically without damage, bloomed freely this spring, and

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has made much new growth. As a ground cover it is not easily surpassed, and there is reason to believe that it will still be used in gardens outside of the wheat sections.

Although the vine known as Actinidia polygama which I mentioned last week is often destroyed by cats when set out of doors, there are still places where it is being grown successfully. There is a very good specimen at the Harvard Botanical Garden in Cambridge, Mass., and others have been reported. Some of the nurserymen have the vine listed in their catalogues. This Actinidia is sometimes called the cat vine, and its peculiar potency may be suggested by the experience of a woman who visited the Arnold Arboretum some time ago and was given a leaf or two. She says that she carried it in her hand bag to her home in Providence, and that when she entered the house her pet cat almost immediately began to perform unusual, unexplained antics. For a long time she did not realize the reason, having forgotten all about the Actinidia foliage. When she remembered it she gave it to the cat, which turned almost inside out in an ecstasy of pleasure. The peculiar feature of the matter is that the vine has no odor which is perceptible to human nostrils. This particular cat had no experience with the plant before.

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HORTICULTURE

Vol. XXIX

JUNE 14, 1919

No. 24

SHORTER HOURS FOR FLORISTS

Opinions of Men Prominent in the Trade on Sunday Closing

Apparently there is a well defined movement among florists the country over in the direction of shorter hours. This is in line with the tendency of the times. Not a few florists believe that retail stores should be closed all day Sunday, but others are more conservative. Of course there are differences of opinion, but the following letters will illustrate the general feeling in the trade:

Early Closing Pays

Washington, D. C.

Gentlemen:—Replying to your favor of the 2nd, with reference to a movement for Sunday closing and for shorter hours, I beg to advise that I see no reason why we could not close the same as other people do, as a matter of fact I see the short closing hours coming.

In Washington there are quite a few stores that keep open until nine o'clock in the evening and all day Sunday up until about nine or ten o'clock, whereas we have been closing for more than a year now at six o'clock in the evening and at one o'clock on Sundays and one o'clock on holidays; and we are doing today more business than ever before by a large per cent. Showing that what little we lose by early closing is more than made up by satisfied employees and we believe the time is not far distant when flower stores will close at noon on Saturday and not open on Sunday at all. In fact there is now a Blue Law bill before Congress to close up everything on Sundays including soda water fountains and tobacco stands. Florists should not wait for this compulsory closing but should volunteer to have shorter hours.

Just think a few months ago when we had gasless Sundays and heatless Mondays. I do not think that anybody lost anything; on the contrary I believe it was a distinct benefit to most of the florists.

WILLIAM F. GUDE.

Keep the Help Contented

Lancaster, Pa.

Gentlemen:—Without being a fanatic I am heartily in favor of Sunday closing, doing only what is absolutely necessary, both in the store and the greenhouses.

A ten hour day has been my policy at the greenhouse for the past ten years with Saturday afternoon off from June 1st to Sept. 30th and a full week's pay.

I am a firm believer in keeping help contented both with their pay and their hours, and in return demand and get their loyal co-operation in making the business a success, any one who does not appreciate my endeavors along these lines is replaced with some one who will.

In the store eight hours and a half holiday makes for better business.

ALBERT M. HERR.

Co-operation Needed

Philadelphia, Pa.

Gentlemen:—Replying to your favor of June 2nd

would state that I am heartily in favor of shorter hours, but as long as the wage scale and over-head remains such a big factor and as long as it is impossible to get a hundred percent action on the time of closing it therefore behooves us to remain open as long as the other fellow does.

As regards the half-holiday and the Sunday closing, while I heartily favor the same, I do not see how this is possible unless you procure a hundred per cent support from the florists of any community. Realize fully the many advantages of the short hours and certainly trust the day is not far distant when we will have thorough working agreement among the retail florists in full operation.

Wishing you every success in your commendable undertaking, believe me to be

Sincerely yours,

CHAS. H. GRAKELOW.

Endorses Sunday Closing

New York, N. Y.

Dear Sir:—Regarding your communication of the second in connection with our opinion as to the Sunday closing and shorter hours.

This firm has always stood for agreeable and reasonable conditions with employer to employees, and I think I may say, Dards Inc., have approved of shorter working hours than the average florist of New York.

We emphatically endorse Sunday closing and nothing would please this firm better, than to see same become either a law or stringent rule.

DARDS, INC.

Per H. G. PERRY.

The Feeling in St. Louis

St. Louis.

Gentlemen:—In reply to your letter of June 2nd, wish to say that we have been working along the idea of shorter hours for the past few years, and we find that we are not losing any trade by it. Our store is open from 7 a. m. to 6 p. m. daily, except Sunday, on which day, our store is open from 7 a. m. until 12 o'clock noon. We are very much in favor of closing all day on Sunday, and there is a motion being agitated in St. Louis to close up all of the florists on Sunday. We think the sooner all the florists in the country close up on Sunday the better it will be for the trade at large, and will make the florists amount to something in the community, and give the florists as well as the employees a day of rest. As we all know, the florist game is a hard one to be plugging at seven days a week without any rest.

If there is any further information, that you may wish, from this locality, we will be pleased to render same, and we hope that your paper will be the first to start the early weekly and all day Sunday closing.

Very respectfully,

FRED C. WEBER.

SUNDAY CLOSING APPROVED.

Kansas City, Mo.

Gentlemen:—I am heartily in favor of Sunday closing and for shorter hours. On July 1st, we will open at 8 a. m. and close at 5 p. m. until October 1st. The only drawback to Sundays is the funeral work. If they would do as I believe they do in Chicago, no funerals on Sundays, I would close my shop on Sunday at once. I am in favor of all the good things for myself and associates which we are entitled to while passing through this planet. It is but a long breath at best,

but it is not how long we live but how well. The great thing is good thinking, a healthy, pure mind.

Sincerely,

SAM MURRAY.

CANADA TAKES THE LEAD.

While florists in the states have been discussing the matter of early closing, some of those in the Dominion have taken the bull by the horns and made the announcement that they would shut down on Saturday afternoons during July and August. Prob-

ably the first public announcement of this policy to be made was by Dunlop's at Toronto. In fact, it is asserted that this was the first florist on the continent to start the Saturday afternoon closing plan. Some other Toronto florists have followed suit, Tidy & Son, H. G. Dillmuth and J. J. Higgins being among them. In some stores a plan is being considered which will give each employee one afternoon each week, although not necessarily Saturday. The entering wedge has been made and the movement will certainly spread.

THE FUTURE OF RHODODENDRONS IN AMERICA

In the current bulletin of the Arnold Arboretum Prof. Sargent has some important observations on rhododendrons. He says:

Of the species of evergreen Rhododendrons only the eastern American *R. maximum*, *R. catawbiense*, *R. carolinianum*, the mountain form of *R. minus*, the Caucasian *R. Smirnovii* and *R. caucasicum*, at least in some of its forms, are truly hardy in Massachusetts. The two species of the European Alps, *R. hirsutum* and *R. ferrugineum* can live here sometimes for a number of years but they are usually short-lived and unsatisfactory plants in this climate. The Japanese *R. brachycarpum* formerly lived in Massachusetts gardens for many years and longer trials will probably show that it can be successfully cultivated in this climate. Including this still doubtful Japanese species and the two little European species, there are only nine species of this great genus of several hundred species hardy in this climate, and there is little hope that another species able to support this climate will be found. The poverty of our gardens in these plants appears when the Arboretum collection is compared with that in a garden in Cornwall in England, in which some three hundred and sixty species of these plants are growing and in which on a day in May of this year sixty-five species were in flower. Such a collection, and perhaps even a better one, can be made in a garden in the neighborhood of Portland, Oregon, or in some favorable place on the shores of Puget Sound, but the sooner it is realized that north-eastern North America is not a good Rhododendron country in any broad sense the better it will be for the gardens in this part of the United States. For the last seventy years a large amount of thought, labor and money have been expended in attempts to cultivate these plants in the New England and Middle States; during this time

many hundreds of thousands of these plants, principally hybrids of the American *R. catawbiense*, have been imported from Europe but the collections of Rhododendrons in the eastern states at all satisfactory or comprehensive can be counted on the fingers of one hand. In this climate unfortunately only a few of the Catawbiense hybrids, which are the popular Rhododendrons here, can be grown. The American parent of these hybrids is perfectly hardy, but the influence of the tender Himalayan species with which it has been crossed has made most of the varieties of this hybrid unsuited to this climate. The influence of the tender *R. ponticum*, the stock on which these plants have been almost universally grafted in European nurseries may account in part for the fact that plants of these hybrids which have lived here for thirty or forty years have then died without any other apparent cause. If evergreen Rhododendrons are ever to become hardy and permanent features of eastern gardens we must give up trying to make European-grown plants successful here, and confine our efforts to the few species which are hardy here and to crossing these among themselves in the hope of obtaining hybrids which will be able to grow here permanently. Something can perhaps be accomplished by the selection of seedlings. For example the flowers of *R. catawbiense* are of a peculiar shade of magenta which does not harmonize with any other color but white. Comparatively few seedlings, however, of *R. catawbiense* have ever been raised and probably not much attention has ever been paid to selecting from among the plants growing on the high Appalachian peaks individuals with flowers of unusual colors. *R. catawbiense* is perhaps the hardiest here of all Rhododendrons; the habit is excellent and the leaves are handsomer than those of the other hardy species. Improve-

ment in the color of the flower is all that is needed to make it a first-rate plant for this climate. It is doubtful if this can be accomplished by crossing it with other species, but through patient selection it may be improved and possibly a white-flowered form discovered. Hybrid Rhododendrons are hardier or less hardy than their parents. The few hybrids which have been made between *R. catawbiense* and *R. maximum*, the hardiest of all Rhododendrons here, are less hardy than their parents; and only a few of the hybrids of *R. catawbiense* with *R. arboreum* and other Himalayan species are hardy. On the other hand by crossing some of the Catawbiense hybrids with *R. Metternichii*, a delicate Japanese shrub, a race of hybrids has been produced in England which is quite hardy in the Arboretum; and the hybrids of the two species of the European Alps crossed with one of the forms of the American *R. minus* are excellent dwarf garden plants here. In this country the breeding of Rhododendrons for American gardens has never been systematically undertaken with full knowledge of the species available for the purpose. The field is an inviting one, for these plants and other hardy broad-leaved evergreens are greatly needed in American gardens.

The Scotch Roses.

Some of the varieties of the Scotch Rose (*R. spinosissima*) are distinct and beautiful garden plants. The handsomest, perhaps, are the variety *altaica*, also sometimes called *var. grandiflora*, with petals faintly tinged with yellow toward their base, the varieties *hispida* and *lutea* with yellow flowers, and the variety *fulgens* with pale pink flowers. Like most single Rose-flowers, the flowers of these Scotch Roses last only a few days, but during these few days they are delightful additions to the Rose-garden,

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

NATIONAL PUBLICITY CAMPAIGN.

Our Maryland State Vice-President, W. F. Ekas of Baltimore, has sent us clippings from the Baltimore newspapers covering a proclamation by Mayor Broening in regard to the parade of home-coming troops on May 31. The proclamation is remarkable for the fact that liberal use is made of our slogan, "Say it with Flowers." It was as follows:—

**"Say it With Flowers," Urges Mayor
Broening, Calling on People of
City to Decorate Liberally for
Returning Heroes**

Mayor's Office, Baltimore, Md.,

May 28.

To the People of Baltimore:

To the end that the home-coming troops may have every physical evidence of the joy in the hearts of Baltimoreans over their safe return, I call on everybody along the route of the parade on Saturday, May 31, as well as throughout the city generally, to decorate liberally.

"Say it with Flowers" is particularly applicable to the present home-coming, and it would be a splendid idea if potted plants and flowers are placed in front of dwellings, as expressing the love we bear our heroes, who translated patriotism into service, and as honoring the memory of those brave boys who gave the last full measure of devotion.

Every home in Baltimore should fly a flag and enter into the spirit of this great occasion.

William F. Broening,
Mayor of Baltimore.

It is suggested that as there will undoubtedly be many home-coming troops parades in various cities and towns throughout the country, the florists in such communities bring to the notice of their mayors the action of the Baltimore Mayor with the idea of getting over similar messages, the beneficial effect of which for the florists' business would be incalculable. It may be that they could also be induced to issue similar proclamations for "Armistice Day."

And yet the florists themselves are not using the slogan nearly as much as they might. From the newspaper clippings which come to our Promotion Bureau, and which cover very

largely the newspaper advertising done by retail florists throughout the country, it is evident that the percentage of florists who incorporate the slogan in their copy is small. What a wilful waste of prestige! Advertising experts assert that the value of this slogan today could not be estimated at less than a million dollars—and the use of it is free as air.

Why not see to it that the slogan is used in every piece of advertising sent out, or advertisement placed? And get the proper electrotype lines from our Promotion Bureau. These lines are in the familiar script form used in the magazines and in our display signs. There are seven sizes available, 1½ in. to 9 in. long, covering practically all requirements.

Our committees are now formulating plans for speeding up the Campaign. As we have before stated, many times, the committees must prepare months ahead for the insertion of magazine advertisements. They spend as they go, and it is quite obvious that unless the money is forthcoming they cannot proceed with their publicity plans. Marvelous results have been secured for what generally is admitted to be a very small sum. A fund of \$100,000 is required to extend these results and make them permanent. It is not a great sum. If the 20,000 florists believed to be in business paid per head assessments it would only cost them \$5.00 a piece. And yet we are obliged to stick around the \$40,000 mark, even when some of our liberal minded florists have given as much as \$200, \$300, and \$500 cash this year.

We are sure that many intended to subscribe, but do not seem to get to the point of writing a cheque. The consummation of Fall publicity arrangements is highly important in the month of June.

Will you, Mr. Nonsubscriber, help to make this possible? Just remember that our work is all done in your interests—you share in the resulting benefit equally with your brother florists. It is for all of us, and that is why we use purely national mediums. Out of the millions of magazine readers we reach there is a proportionate number in your locality. If we arouse their interest in flowers, as we must

surely do, are you not going to derive advantage from it?

Think the matter over, seriously, and your conscience should prompt you to make a contribution—and make it quickly.

JOHN YOUNG, Secretary.

NEW YORK TO DETROIT.

S. A. F. & O. H. Convention, August
19, 20, 21.

The New York Florist Club has decided to travel by the way of the D. L. & W. railroad to Buffalo, then by boat to Detroit. The party will leave New York August 17, 8.30 p. m.; Hoboken, 8.55 p. m., arriving at Buffalo 7.30 the following a. m.; spending the day in Buffalo, leaving there on the 6.00 p. m. boat that night and arriving at Detroit Tuesday morning.

The railroad fare New York to Buffalo, is \$12.83; berths, \$2.16 including war tax.

On boat, Buffalo to Detroit, \$4.32, state room accommodating two persons, \$3.78.

The committee has already applications enough to fill two cars and it is most important for those who are going to travel with the New York Florist Club Party, to notify the committee at once so they can make the necessary reservations. This is going to be the banner convention, so make your reservations at your earliest opportunity.

The committee consists of Messrs. John J. Esler, P. W. Popp and A. L. Miller, chairman, Jamaica, New York.

Should any further information be desired, communicate with the chairman.

PATENTS GRANTED.

Copies of any of these patents can be obtained by sending fifteen cents in stamps to Siggers & Siggers, patent lawyers, Box No. 9, N. U. Bldg., 918 F. St., Washington, D. C., by mentioning HORTICULTURE.

1,304,631. Cultivator Attachment. Andrew J. Tower, Mendota, Ill.

1,304,838. Soil-Preparer and Cultivator. Thomas M. Weston, Chicago, Ill.

1,304,871. Soil-Surface Pulverizer. Stephen H. Garst, Moline, Ill.

1,304,916. Checking Attachment for Planters. William L. Sprowl, Van Alstyne, Tex.

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Established by William J. Stewart in 1904

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Shorter hours

The thing is bound to come. Florists are going to establish hours which are approximate to those in other lines of business. It is the tendency of the times and in line with human as well as business progress. Oftentimes the owner of a business enterprise becomes so absorbed in its development that time means nothing to him. He is as willing to work sixteen hours as eight, for all his thoughts are centered on the one thing. Occasionally such a man seems surprised to find that his employees fail to manifest just as keen an interest in his business as he himself feels. He gets a warped viewpoint and perhaps defeats his own ends by his failure to look at the matter from all angles.

The progressive and successful florist will try to make the working conditions of his help as pleasant and as satisfactory as possible. He will not keep them in the harness while men in other lines of business are enjoying needed hours of rest or recreation, if he can avoid doing so. All this is more or less trite, of course. From the letters printed on another page it will be seen that there is general unanimity among the men in the trade who have expressed an opinion in the matter, and that the wind is blowing in the direction of shorter hours and Sunday closing.

Yet the one deterring factor has not been overlooked. If the thing desired is to be accomplished, there must be a getting together in every city. Unity of action is imperative. A florist must occupy a strong position and be very sure of himself to close his store when he knows that his competitors will be open. Let all the members of the trade in each city act together and there will be much less difficulty in putting the thing over. The public will follow along. The amount of trade lost will be small and the morale of the workers will be increased.

There are plenty of florists who want to see the reform carried through. Isn't this the time to make a beginning?

More glass

There is plenty of optimism among greenhouse men, as may be judged from the fact that many of the well-known growers in the country are adding to their ranges. It is true that growers are not a unit in anticipating a rapid expansion of their business, some of them being reluctant to add any new glass. There is a general feeling of confidence, however, and the greenhouse manufacturers report that orders are coming in most satisfactorily. It is true that the cost of building new houses is higher than ever before in the history, but the increase is largely offset by the higher prices which are being obtained for plants and flowers. Moreover, the demand seems likely to be sustained for a long time. People are buying flowers more freely than ever before, and the habit is spreading rapidly among what are called the middle classes and the working classes. It is this fact which gives growers an optimistic outlook.

Whose the Fault?

"A Roving Gardener" writing in HORTICULTURE of June 7th last has something to say on "the tardiness with which the public responds to new offerings" of plant material. I would like to ask what opportunity "the public" has to see, to get to know and to judge the merits of these new offerings? I take it that a nurseryman has three means of acquainting the public of the variety and quality of his "offerings" (1) By issuing a catalogue replete with accurate, terse descriptions and good pictures showing their habit, their flowers or both; (2) by placing properly labelled examples of the material he has for sale on exhibition where the public has opportunity of seeing it; (3) by advertising his wares in the horticultural and lay press.

Catalogues are issued a plenty but very few in such manner as the public can gather any exact knowledge of the plants listed. Advertising, in general so well understood in this country, is not properly utilized by those whose business is to sell living garden material, and they in turn are handicapped by the almost complete absence of a proper horticultural press. Flower shows, plant exhibitions—when there is one in this country there ought to be a hundred.

The public may be skeptical of descriptions, written in the superlative mood, in catalogues and advertisements, but plants on exhibitions are a demonstrable proof of their worth or otherwise. If the three means at the nurserymen's command were coordinated and developed as they ought to be, the public would have the opportunity of knowing what material is available for garden embellishment. If nurserymen with proper stocks of first-class plants, new or old, and by catalogue, flower show and advertising bring them to the proper knowledge of the public, we shall in future hear little about the tardy appreciation of beautiful plants. Does not "A Roving Gardener's" own story of two roses in the same issue of HORTICULTURE affirm this?

E. H. WILSON.

NEWS AND COMMENT

MORE ATTENTION TO FRUIT NEEDED.

Waltham, Mass.

Editor HORTICULTURE:

I was very interested in reading your article in a recent issue of HORTICULTURE, relative to the critical period that the Massachusetts Horticultural Society is going through.

I have felt, since I have been down in Eastern Massachusetts, that the Massachusetts Horticultural Society was not measuring up to its opportunities. It was very much weaker in the work it was doing, than when I knew it intimately several years ago. I have felt that it was rapidly getting to be a gentleman farmers' club rather than a true horticultural society, working for the betterment of horticulture in all its phases.

It is one of the oldest horticultural societies and has done some of the best work done in this country. It is located in the midst of the greatest horticultural fields, when one considers varieties and activities along horticultural lines that we have in and around Boston.

I certainly trust that the movement which you started will result in a re-organization of the policy and lines of work attempted by the society. My special interest, as you know, is fruit, and they have been pulling away from this phase, giving it less and less money annually every year, and I have felt it was a serious mistake.

ALBERT R. JENKS.

ST. LOUIS.

Flowers are plentiful and prices on the decline. Roses arrive considerably open and carnations are getting smaller. Outdoor sweet peas are coming in, the indoor ones being about over.

The Growers' Association met Wednesday evening, June 4 at Eleven Mile House. The installation of officers was postponed until the next meeting.

Mr. Stauch, formerly with J. F. Wilcox & Sons, Council Bluffs, Ia., has been visiting St. Louis looking for a good location to build a range of greenhouses.

Visitors—Walter A. Amling, Maywood, Ill.; A. N. Neilson, Pana, Ill.; Philip McKee, Chicago, Ill.; Mr. Stauch, Council Bluffs, Ia.

ROCHESTER.

The market is full of flowers. A high temperature accompanied by burning sun has hurried on stock without making it particularly good. Carnations are sleepy. The peony crop is not so heavy as last year in red and deep rose shades. Roses of all kinds are in abundance and June weddings and graduations have helped to clean up stock. Sweet peas are in over supply but of good quality. Calendula, marguerites, snapdragon, Iris, delphinium, snowballs and candytuft glut the market. Some very fine America gladioli are arriving and sell well.

Miss Kate Harvey of Albert's the Florist, has severed her connections with that firm and left for Cleveland, O.

J. B. Keller Sons are displaying some gorgeous vases of Oriental poppies.

MEETING OF NEWPORT GARDENERS.

The Newport branch of the National Association of Gardeners, recently organized, held its regular monthly meeting on Friday evening, the 6th, with Andrew L. Dorward in the chair, and a good attendance of members. After Secretary Frederic Carter read the report of the last meeting which he had sent to the national secretary, William Mackay who attended the gardeners' conference held in Boston last month, reported what took place at that meeting.

M. C. Ebel, secretary of the national association, who came from New York to attend the meeting, reviewed the history of the national organization and briefly outlined the activities of his office. He also spoke of the negotiations now under way to bring about co-operation between the country estate owners and the national association, the plans for which it is believed, will take definite shape before the annual convention to which they are to be submitted. Mr. Ebel urged that all who can arrange their affairs to be away during the last week in August, should make every effort to attend the annual convention which will be held in Cleveland, August 26-28. A number of those present declared their intentions of doing so.

PHILADELPHIA.

The cut flower market for the first week of June in this city was marked by a whole lot of strenuousness and hard work on the part of everybody trying to make a dollar, and at the wind up the dollar hunters did not have a great deal to show for their extra effort. In other words the market was swamped and outside of regular trade no prices could be got for the surplus worth mentioning. The street boys could get a wagon load almost for the carrying away. Of course, the select trade was doing about as usual for the season and quotations on fancy stock like American Beauty, Russell and other indoor roses did not drop much. Carnations also held their own fairly well in the same connection, and orchids were the finest thing on the market. They held to the good old dollar mark and the cattleyas and phalaenopsis were really fine, and worth the money. No Easter lilies to be seen and very few callas. The latter are rather poor quality. In this connection there is a good showing of *Lilium candidum*, which helps out a little. Delphinium very fine, and occupies a front seat in the daily returns. Gaillardia, coreopsis, sweet sultan, bluets and similar items greet the eye in quantity. Gladioli and sweet peas are also well to the front. The latter suffered a good deal from that 97 per cent. in the shade the weather man handed out.

E. Gurney Hill is among the eminent rosarians honoring us with a visit this week, and he seems to be enjoying himself. He talks by the hour to John Burton under a tree at Wyndmoor, then he blows in to the Holstein-Friesian Cattle Show, where his son-in-law is a prince—hailing from Seattle. By and by, the hob-nob is with Robert Craig, at the Kirk, and after that there is a Quaker pow-wow—and some business on the side. Leave it to Gurney. He knows how to mix business and sociability—if anybody does.

William Graham is now located at 1302 Sansom street and is doing business on his own account as an expert florist and decorator. He is making a specialty in plant, floral and electrical decorations, including flags and bunting.

September 23-25, New York—Dahlia exhibition under the auspices of the American Institute of the City of New York and the American Dahlia Society at the Engineering Society building, 25-33 West 39th street. Wm. A. Engleson, secretary board of managers, 322 West 23rd street, New York.

Philadelphia Visitors:—E. Gurney Hill, Richmond, Indiana; Rev. E. M. Mills, Syracuse, N. Y.; J. Horace McFarland, Harrisburg, Pa.; Benjamin Hammond, Beacon, N. Y.; E. Allan Pierce, Waltham, Mass.; Robert Pyle, West Grove, Pa.; Dr. W. A. Moore, Seattle, Washington.

HOLYOKE & NORTHAMPTON FLORISTS' & GARDENERS' CLUB.

A meeting of this club was held June 3d with George Strugnell, head gardener at "Bonny Briar," Holyoke, Mass., the president, Harold Keyes, presiding. The members voted to omit the July and August meetings. The results of many years of skilful and hard work at "Bonny Briar," by Mr. Strugnell were enjoyed immensely by members present.

LANCASTER COUNTY FLORISTS' ASSOCIATION.

Lancaster, Pa., via trolley and machine a trip was made to the B. F. Barr farm for an inspection of his peonie fields, those fields that should have been in full bloom for Decoration Day but were just in their prime June 5th about 7 p. m.

One plot of about five acres contained the regular assortment of some fifty odd varieties, ranging in price from ten cents to ten dollars for single eye division. To attempt to describe them would be to issue a catalogue with adjectives and exclamation points the main feature of the catalogue.

Mr. Barr kindly told us to help ourselves to cut blooms and every one of the twenty present availed themselves of the offer.

On the southern slope of a hill about an acre was planted for cut flower purposes only, these furnished about fifty blooms for Decoration Day and thousands for the week following, but better luck next year. Right in the same line of vision with this field are several acres of Blue Spruce and it certainly makes a beautiful spot on the landscape, in fact thousands of the various varieties of evergreens make this one of the show spots of this section.

After an inspection of the formal garden which always has some new attractions in it the meeting was held on the porch with T. J. Nolan and Dennis Connor as visitors.

After the usual routine of business the Picnic was taken up and the committee instructed to make final arrangements for a picnic at Wild Cat with a chicken and waffle dinner.

A committee consisting of three from this Club and three from the

Ladies' Auxiliary were appointed to arrange for a second picnic to be held at Rocky Springs for the children, this one to follow the other within a month.

After the regular business Mr. P. K. Murphy, who has just returned from overseas where he served two years with the Ambulance Co. 111th and saw some of the hardest work of the war gave us a very interesting talk on his experiences with some new views of the situation and also gave his experiences with the French flower shops, a talk well worth hearing and one long to be remembered.

Mr. John Schmuckli another returned employee of Mr. Barrs reached Lancaster 3 p. m., June 5th, and came right out to see the florists, saying he was mighty glad to get back to where there were real houses and where he could understand what the people said to him. He was connected with the 304th Engineers and told us of his many experiences in a talk following Mr. Murphy and told them so graphically that the meeting did not adjourn, it simply dissolved after he was through, and like one of Mr. Schmuckli's experiences the Secretary found himself among the trees on the Barr lawn with all the machines gone and a half hour's wait for the 11 o'clock car.

The amalgamation of the Ladies' Auxiliary and the Club was discussed and will probably be effected by the time the regular fall business meetings start into work.

ALBERT M. HERR.

OBITUARY.

Joseph C. Forbes

Joseph C. Forbes, known throughout New England as a horticulturist, died at New Bedford on Saturday at the age of fifty-three. He had been seriously ill for some time. He owed his reputation largely to a variety of dahlias known as the Ruth Forbes, which had won prizes in New England and New York flower shows.

BOSTON.

While the flower market has reacted a little, it is still very weak, but the trend is upward again and the growers are beginning to take courage. At the same time much stock is being wasted and a considerable amount is being given away. The few Pennsylvania peonies now coming in are in pretty poor condition. The weather has put them out of commission. The quality of the native offerings is very much higher. Roses are selling the best. The call for carnation is light, although the stock is in excellent con-

dition. There is more offered than the market can absorb. The one flower which is in demand but difficult to get is valley. Much more than is offered would be snapped up if it could be had. Doubtless this is due to the June weddings, of which there are a greater number this season.

John Farquhar, Patrick Welch and Allan Peirce attended the rose test exhibition at Washington and greatly enjoyed it.

The Boston Horticultural Club is planning a trip to Farquhar's nurseries on the Cape in the near future.

NEW YORK.

Many of the boys who have been overseas are now back. Among them is James Murray, who has taken his old position with the Kerwan Company. Julius Mason was wounded and is now in a French Hospital. John Cowper is also still across the water. George A. Crawbuck has been discharged from the navy after two years' service.

The Aphrodite Company has taken the store formerly operated by Malandre Bros. at Broadway and 103d street.

ORCHID COLLECTION SOLD.

One of the Biggest Transactions of the Kind Ever Made.

The celebrated Orchid collection owned by the late Charles G. Roebing, Trenton, N. J., has been sold intact to a private person prominently known in Philadelphia society. This sale of Orchids, which probably is the largest transaction of its kind that has ever been made in this or perhaps any other country was executed by A. M. Van Den. Hoch. The well known Philadelphia district manager of the noted firm, W. H. Moon Co., Nurserymen, Morrisville, Pa. Van refuses even to give a remote inkling as to the price paid, but sort of smiles when the sum of \$30,000 is mentioned for he modestly does not claim to have any knowledge whatever of these aristocrats of the florist business. The famous collection consists of over 600 species and varieties with several thousand flowered and unflowered home raised seedlings, which no doubt will be seen in coming floral exhibitions in the future.

AN EARLY SPIREA.

Spirea Miyabei, a Chinese shrub, although less beautiful than S. Veitchii and S. Henryi, which are the hand-somest of the new Chinese plants in this genus, flowers earlier than they do and is distinct in its flat or slightly convex clusters of white flowers which are terminal on erect, leafy, lateral branchlets three or four inches long, and quite cover the plants.

THE GARDENERS' SECTION

MR. WILSON'S APPOINTMENT

The Gardener's Chronicle of London has the following very pleasant reference to the appointment of Mr. E. H. Wilson, Assistant Director of the Arnold Arboretum:—On April 14th last the Board of Overseers of Harvard College appointed Mr. E. H. Wilson Assistant Director of the Arnold Arboretum, in succession to the late Mr. Charles E. Faxon. Mr. Wilson is eminently fitted to fill this important position, for he has a most extensive and varied knowledge of plants, and as a plant collector in China and other parts of the East has enriched our gardens with a wealth of new flowering plants, trees, and shrubs. Mr. Wilson was formerly engaged in the Botanic Gardens at Edgbaston, under the late Mr. Lathom, and the knowledge of plants he acquired there and subsequently at Kew was of inestimable value to him in his several plant-collecting expeditions. He is the author of several works, dealing mainly with new plants of the Far East, and is a valued contributor to this journal. It is a signal honor for British horticulture that the important post of Assistant Director in this celebrated American botanic garden has been given to an Englishman.

FIELD DAYS OF THE AMERICAN ROSE SOCIETY.

June 2nd, 3rd and 4th, 1919, were "Red Letter" days in the annals of the American Rose Society. On Monday, June 2nd, the members of the Executive Committee with friends met Dr. W. Van Fleet in his test gardens at Bell, Maryland. The afternoon was spent looking over the recently-introduced novelties and the seedlings which Dr. W. Van Fleet has under his supervision. The exhibit was indeed an interesting one.

Among the recently introduced species were septipoda, with large clusters of showy pink flowers about two inches across; blanda variety Willmottiae, with bright coral pink flowers; gentiliana, a hardy climbing species with medium sized white flowers, resembling Banksiae; rosabella, a light pink bush form with moss calyx; multiflora cathayensis with pink flowers about one and one-half inches across in large flat corymbs.

Dr. Van Fleet showed the party many attractive seedlings which were under number. One of these was a

cross between Double Rugosa and Triomphe de Orleans, a continuous bloomer with lacinate petals; Engelmannii crossed with Moyesii, an early-flowering variety with rich red flowers nearly three inches across; several Hugonis and Altaica seedlings of promise, crosses between Wichuraiana and hybrid teas, among which was a promising seedling with Lyon as the pollen parent, and another cross between Wichuraiana and Irish Fire-flame, No. W. M. 213, a clear pink containing blood of Caroline Testout crossed with Wichuraiana, was especially good as was also No. W. M. 5, a rich single dark red the parentage of which was Wichuraiana crossed with Moyesii.

In the evening the Executive Committee and the Arlington Rose Test Garden Committee held a session at the Ebbitt House. Plans for the following day were perfected, and consideration was also given to increasing the efficiency of the new rose garden. The opinion was expressed that there should be established in Washington an exhibition rose garden where there should be a display of those varieties best suited for the section. The rose test garden is fulfilling its purpose by a demonstration of what varieties will do in the particular soil and climate, but from the nature of its purpose it can never be made to appeal to the eye because of its beauty. Individual plants of a variety will do this, but there must be vacant spaces where varieties die out. A committee, composed of J. Horace McFarland, Frederick Law Olmsted, Representative James R. Mann and S. S. Pennock, was appointed to confer with the proper officials of the United States Department of Agriculture in formulating plans and in locating such an exhibition garden. A committee was also appointed to consider the best methods for disseminating the varieties of roses bred by Dr. Van Fleet.

At 9.30 a. m., June 3rd, the following judges visited the Arlington Rose Test Garden to note the comparative value of varieties of climbers, bush and cut roses: A. Cumming, Cromwell, Conn.; B. H. Farr, Wyomissing, Pa.; G. S. Kidwell, Washington, D. C.; Dr. E. M. Mills, Syracuse, N. Y.; S. C. Hubbard, Ithaca, N. Y.; George E. Anderson and Charles E. Gersdorff, Washington, D. C. At 11 o'clock a

large number of members of the Rose Society visited the garden and spent the remainder of the morning noting the various varieties. A committee from the Executive Committee and from the Arlington Rose Test Garden committee remained to welcome and to explain the work to seventy-five soldiers from the Reconstructive Department of the Walter Reed General Hospital who visited the garden in the afternoon. Professor David Lumsden, who is in charge of the section devoted to agricultural training, directed the party. The other members of the party returned to the Ebbitt House for luncheon. In the absence of President Hammond, Dr. E. M. Mills presided as toastmaster. President Z. D. Blackstone of the Washington Florists' Club, cordially welcomed the members of the society to Washington, and Secretary E. A. White responded by expressing the appreciation of the members for the many courtesies extended to them. Professor L. C. Corbett told of the work which is being done in the garden and of the need of a show garden. He was followed by Mr. E. G. Hill of Richmond, Ind., who spoke of the introduction of roses suited for commercial culture, and Thomas N. Cook of Watertown, Mass., spoke of rose culture from the viewpoint of an amateur.

Following the luncheon, automobiles carried the party through the beautiful Rock Creek Park to the home of Mrs. Charles G. Bell. Here the party spent a delightful afternoon among the roses, herbaceous perennials and the many natural beauties of Twin Oaks.

At 9.30, June 4th, the Executive Committee of the American Rose Society met at the beautiful estate of Captain George C. Thomas, Jr., at Chestnut Hill. The morning was spent with a session of the Executive Committee. At the annual meeting of the society Captain Thomas was elected president, but he found it impossible to serve during the coming year. Robert Pyle of West Grove, Pa., was therefore elected to serve as president for the year beginning July 1, 1919. Important changes in the constitution and by-laws were considered.

Captain and Mrs. Thomas entertained the officers, executive committee and friends with a delightful luncheon. After the coffee Dr. E. M.

Mills, in his wonderfully pleasing manner, presented the retiring president, Benjamin Hammond, with a beautifully leather-bound copy of Captain Thomas' "Outdoor Rose Culture" as a token of appreciation from the officers and Executive Committee for his fourteen years of valuable service to the society, twelve years as secretary and two years as president. Mr. Hammond responded, expressing the pleasure which the expression of esteem gave him and spoke of how highly he should value the book because of the associations it would recall to him, and the fact that it was presented to him in the beautiful rose garden of the author. Following the presentation Captain Thomas christened his seedling No. 720, a beautiful rich red, single climber, "Dr. Huey," in honor of Dr. Robert Huey, because of the fact that it was through Dr. Huey that he first became interested in roses and rose breeding.

By 2 o'clock about one hundred and fifty rose lovers had gathered in the garden. The heat was intense, but it was with difficulty that guests were lured from the living beauties to the shade of the trees where President Hammond introduced Captain Thomas who spoke a few words of welcome. He expressed the pleasure it gave him to share his roses with others and he hoped the guests would make the garden theirs for the afternoon. Mr. J. Horace McFarland discussed "American Roses," emphasizing the value of the work Dr. Van Fleet and Captain Thomas are doing in introducing types of roses suited for all American conditions. He was followed by the "Silver-tongued orator from Indiana," the rosarian who is universally known and loved, Mr. E. G. Hill. He also paid a tribute to Dr. Van Fleet's, Captain Thomas' and John Cook's work in rose breeding, stating that the infusion of the hardy "blood" of the rugosas and Wichurainas with the teas and hybrid teas was sure to develop new varieties suited for outdoor growing in the middle-west. Mr. Robert Pyle, the newly elected president, closed the somewhat formal program of the afternoon emphasizing the value of the work the society is doing in reaching a large number of rose lovers and in carrying to them information which is of value in rose growing. The remainder of the afternoon was spent among the roses. Among the seedlings a single white was accurately described by Captain Thomas as a "bush hardy Cherokee." The flowers were pure white and nearly four inches across.

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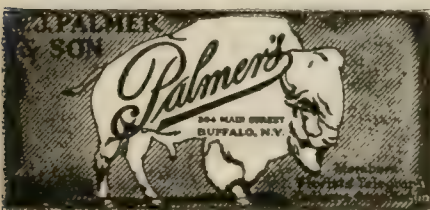
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RARE PLANTS AT THE ARNOLD
ARBORETUM.

Neillia sinensis is blooming again
this year. The flowers of this Neillia
are cylindric, clear pale pink, nearly
half an inch long, and hang down on
slender stems in long, one-sided
racemes terminal on short lateral
branchlets, and do not open until the
small dark green leaves have grown
nearly to their full size. It is one of
the new Chinese plants which seem
destined to become popular in Ameri-
can gardens.

Kolkwitzia amabilis in the collection
of Chinese plants on Bussey Hill is
now well worth a visit, for Kolkwitzia
has not before flowered so abundantly
in the Arboretum. It is the only rep-
resentative of a genus which is related
to Diervilla and Abelia. The flowers
are borne in pairs on long stems at
the ends of short lateral branchlets
and are rose-color in the bud, becom-
ing paler after opening, the inner sur-
face of the three divisions of the lower
lobe of the corolla being white blotched
with orange color at the base. Kolk-
witzia did not begin to flower until it
had been several years in the Arbore-
tum, and it has not always, especially
in the Shrub Collection, proved per-
fectly hardy here. A plant, however,
like the one now on Bussey Hill, will
make up for many disappointments.





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AMERICAN ROSE SOCIETY.

The American Rose Society had an important meeting in Philadelphia June 4. While the annual meeting occurs March 13 each year, there is usually a supplementary meeting in June—the month of roses—and this year several important matters had been left in abeyance for final action, the principal of which being the election of the president for the year. This honor fell to Robert Pyle of the Conard & Jones Co, West Grove, Pa., and a better man for the office would be hard to mention, notwithstanding the many eminent rosarians who had graced the chair during the past twenty years. The meeting took place at the residence of George C. Thomas, Jr., Chestnut Hill, whose rose gardens are famous far and wide and whose writings on his favorite flower are universally admitted to be the most up-to-the-minute in this country and abroad. About three hundred ardent enthusiasts attended the meeting, and inspected the rose gardens of Mr. Thomas, which contain almost every known variety of the Queen of Flowers. The inspection lasted from 10 a. m. to 5 p. m. and was much enjoyed. An interesting feature of the occasion was a dinner served by Mr. Thomas to the officers and executive committees of the society, at which the retiring president, Benjamin Hammond of Beacon, N. Y., was presented with a specially bound volume of the latest Lippincott edition of "Thomas On Roses," by George C. Thomas, Jr. This was the gift of another ex-president, Samuel S. Pennock, who made the presentation speech. Many rosarians from distant parts of the country were present, even the far off Pacific Coast being represented by Dr. W. A. Moore of Hollywood Gardens, Seattle, Washington.

SCORING THE ROSES

The judges at the National Rose Test Garden, near Washington, D. C., scored the roses there that appeared best on June 3.

The following were at the head of

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the respective lists with the number
 of points they scored:

Tea and Hybrid Tea Roses.

1, Radiance, 97; 2, Mme. Jules Gro-
 lez, 96; 3, Ophelia, 95; 4, Radiance, 95;
 5, Isabella Sprunt, 94; 6, Mrs. Wake-
 field Christie Miller, 93; 7, Lady Ursu-
 la, 91; 8, Lucien Chaure, 91; 9, Had-
 ley, 90; 10, Mary, Countess of Illches-
 ter, 90; 11, Mme. Camille, 90; 12,
 Prince de Bulgarie, 90 13, Cook 512,
 90.

Hybrid Perpetuals.

1, Ulric Brunner, 95; 2, Frau Karl
 Druschkii, 95; 3, Mable Morrison, 94;
 4, Tom Wood, 90; 5, Baroness Roths-
 child, 90; 6, Jubilee, 88; 7, Her Ma-
 jesty, 87; 8, Mme. Cal. Luiçet, 82.

Dwarf Polyanthus.

1, Aennchen Muller, 81; 2, Triomphe
 Orleanais, 79; 3, Mme. Jules Gouch-
 ault, 78; 4, Baby Elegance, 77; 5, Or-
 leans, 75; 6, Jessie, 74; 7, Erna Tes-
 chendorff, 73; 8, Yvonne Rabier, 73; 9,
 Ellen Poulsen, 72; 10, Mrs. Wm. H.
 Cutbush, 72; 11, Marie Pavic, 72.

Rugosas.

1, S. S. I. No. 20,150, 76; 2, Rug. Ru-
 bia plena, 72; 3, R. Rugosa Prostata,
 71; 4, Hausa, 69; 5, A. W. Martin, 67.

Rose Species.

1, R. Brenouis, 77; 2, Rosa Macran-
 tha, 73.

Hybrid Sweet Briar.

1, Lucie Bartram, 82; 2, Lord Ren-
 zance, 80; 3, Austrian Apper, 80; 4,
 Bradwardine, 79; 5, Idinna, 78; 6,
 Jeanne Deans, 76; 7, Anna de Grus-
 teine, 76.

Climbers.

1, Bess Lovett, 93; 2, Purity (not at
 its best) 85; 3, Mrs. Flight, 85; 4,
 Sheila Wilson (single) 84. 5, Cubin,
 82; 6, Leonline Gervais, 82; 7, No.
 18000, 80.

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 insuring a large crop of flowers.

This variety should be included in
 the class of Pillar Roses as with me
 it grows from 12 to 15 feet tall, just
 loaded with blooms. The flowers are
 large without disbudding also. Re-
 member the larger the bush the more
 roses you get if variety is only vigor-
 ous enough.

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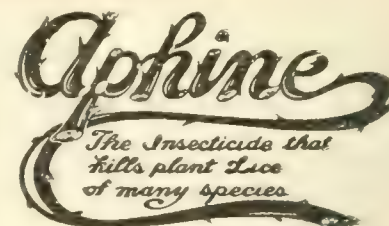
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IRIS EXHIBITION AT BOSTON.

The Iris Exhibition of the Massachusetts Horticultural Society was held at Horticultural Hall, Boston, on Saturday and Sunday, June 7 and 8. There was a good display of irises staged by J. K. Alexander, George N. Smith, H. F. Chase, and Miss Grace Sturtevant. Of especial note was Miss Sturtevant's exhibit of fifty new seedlings. The variety Lord of June, shown by H. F. Chase, was pronounced the finest iris in the exhibition.

A table of rhododendrons was shown by T. C. Thurlow's Sons, Inc., and a large collection of hardy herbaceous flowering plants was exhibited by Wm. N. Craig, Superintendent of Faulkner Farm, Brookline.

Among vegetables the first potatoes of the season were shown by Hillcrest Farm, Weston. Hillcrest Farm made also the first exhibit of strawberries.

Miss Cornelia Warren, Henry Stewart, gardener, showed Persian Yellow and Mme. Plantier, roses and poppies.

The following prize awards were made:

Awards for Flowers.

H. H. Hunnewell Fund, No. 3—Rhododendrons—Best new hardy variety, grown two or more years in the open in New England, three trusses; T. C. Thurlow's Sons, Inc., Rhododendron Wm. P. Rich, Silver Medal. Twelve distinct varieties, one truss each: 1st, T. C. Thurlow's Sons, Inc.; 2d, T. C. Thurlow's Sons, Inc.

John Allen French Fund—Iris—Twenty-four vases of three trusses each, not less than twelve varieties: 1st, H. F. Chase; 2d, George N. Smith. Twelve vases, not less than six varieties: 1st, J. K. Alexander. Hardy Herbaceous Flowers—Twenty distinct species and varieties, not less than eight genera (For non-commercial growers only): 1st, Faulkner Farm.

Honorable Mention—Miss Grace Sturtevant, Iris Dream; the same for Iris Valkyrie; the same for Iris Jennett Dean.

Awards for Fruits.

Honorable Mention—Hillcrest Farm, Wilfrid Wheeler Strawberry No. 7.

WM. P. RICH.

COMING EXHIBITIONS.

Will secretaries please supply any omissions from this list and correct dates that have been altered:

June 21-22, New York—Annual meeting and exhibition of the American Sweet Pea Society at American Museum of Natural History. Wm. Gray, secretary, Bellevue road, Newport.

June 24-25, Jenkintown, Pa.—Exhibition of sweet peas, hardy perennials and hybrid perpetual roses of the Pennsylvania Horticultural Society. David Rust, secretary, 606 Finance Building, Philadelphia.

June 25-26, Newport, R. I.—Summer show of the Newport Horticultural Society at Convention Hall. Fred P. Webber, secretary, Melville, R. I.

July 5-6, Boston, Mass.—Exhibition of sweet peas of the Massachusetts Horticultural Society. Wm. P. Rich, secretary, Horticultural Hall, Boston, Mass.

August 9-10, Boston, Mass.—Exhibition of gladioli and phlox by Massachusetts Horticultural Society. Wm. P. Rich, secretary, Horticultural Hall, Boston.

September 4-6, San Francisco, Cal.—Annual show of the Dahlia Society of California at Palace Hotel. F. C. Burns, secretary, San Rafael.

September 9-11, Hartford, Conn.—Fall flower show of the Connecticut Horticultural Society. Alfred Dixon, secretary, Wethersfield, Conn.

September 11-14, Boston, Mass.—Dahlia, fruit and vegetable exhibition of the Massachusetts Horticultural Society. Wm. P. Rich, secretary, Horticultural Hall, Boston.

September 16-17, Ardmore, Pa.—Exhibition of dahlias, outdoor cut flowers and vegetables of the Pennsylvania Horticultural Society. David Rust, secretary, 606 Finance Building, Philadelphia.

September 18-19, Providence, R. I.—Dahlia show of the Rhode Island Horticultural Society. E. K. Thomas, secretary, Kingston, R. I.

COMING MEETINGS.

Chicago—American Seed Trade Ass'n, annual convention, June 24 to 26. Secretary, C. E. Kendell, 216 Prospect Ave., Cleveland, O.



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NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Part of Week ending June 8 1919		First Part of Week beginning June 9 1919	
American Beauty, Special	20.00	to 35.00	10.00	to 20.00
" " Fancy and Extra	12.00	to 20.00	6.00	to 10.00
" " No. 1 and culls	2.00	to 10.00	1.00	to 5.00
Russell, Hadley	3.00	to 30.00	2.00	to 15.00
Killarney, Ward	2.00	to 6.00	1.00	to 4.00
Radiance, Taft, Key	3.00	to 25.00	2.00	to 15.00
Ophelia, Sunburst	2.00	to 10.00	1.00	to 6.00
Carnations	3.00	to 8.00	1.00	to 2.00
Cattleyas	20.00	to 50.00	20.00	to 75.00
Lilies, Longiflorum	10.00	to 12.00	10.00	to 12.00
Lilies, Speciosum	8.00	to 16.00	8.00	to 12.00
Callas	4.00	to 6.00	1.00	to 2.00
Iris	2.00	to 6.00	12.00	to 15.00
Lily of the Valley	9.00	to 6.00	.50	to 1.00
Snapdragon	.50	to 1.00	.10	to .50
Pansies	3.00	to 25.00	2.00	to 3.00
Calendula	2.00	to 6.00	.50	to 2.00
Stocks	2.00	to 3.00	1.50	to 3.00
Wallflowers	.75	to 2.00	.25	to 1.00
Mignonette	1.00	to 2.00	.25	to 1.00
Sweet Peas	6.00	to 25.00	5.00	to 25.00
Marguerites	.75	to 1.25	.50	to 1.00
Gardenias	6.00	to 12.00	3.00	to 8.00
Adiantum	15.00	to 30.00	15.00	to 25.00
Gladioli				
Asparagus Plumosus, & Sprea (100 bunches)				

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON June 9		ST. LOUIS June 9		PHILA. June 9	
Roses						
Am Beauty, Special	25.00	to 35.00	50.00	to 60.00	40.00	to 50.00
" " Fancy and Extra	12.00	to 20.00	25.00	to 40.00	20.00	to 30.00
" " No. 1 and culls	1.00	to 6.00	5.00	to 15.00	5.00	to 15.00
Russell, Hadley	2.00	to 8.00	3.00	to 15.00	8.00	to 25.00
Killarney, Ward	2.00	to 8.00	3.00	to 6.00	3.00	to 6.00
Radiance, Taft, Key	2.00	to 8.00	3.00	to 8.00	10.00	to 25.00
Ophelia, Sunburst	2.00	to 8.00	2.00	to 8.00	3.00	to 10.00
Carnations	1.00	to 2.00	1.50	to 3.00	3.00	to 4.00
Cattleyas	25.00	to 5.00	50.00	to 75.00	75.00	to 100.00
Lilies, Longiflorum	16.00	to 25.00	20.00	to 25.00	20.00	to 25.00
Lilies, Speciosum	8.00	to 20.00	.....	to .....	.....	to
Callas	12.00	to 25.00	15.00	to 25.00	20.00	to 25.00
Iris	2.00	to 4.00	6.00	to 10.00	10.00	to 12.00
Lily of the Valley	8.00	to 10.00	6.00	to 8.00	8.00	to 10.00
Snapdragon	4.00	to 12.00	2.00	to 4.00	8.00	to 10.00
Pansies	.25	to 1.00	.....	to	5.00	to 6.00
Calendula	1.00	to 2.00	2.00	to 4.00	2.00	to 3.00
Stocks	8.00	to 10.00	5.00	to 8.00	.50	to .75
Wallflowers	3.00	to 4.00	.....	to .....	.....	to
Mignonette	1.00	to 1.50	3.00	to 4.00	3.00	to 4.00
Sweet Peas	.50	to 1.50	.20	to .75	2.00	to 2.00
Marguerites	1.00	to 2.00	.50	to 1.00	.50	to .75
Gardenias	25.00	to 50.00	.....	to	30.00	to 40.00
Adiantum	1.00	to 1.50	10.00	to 12.50	2.00	to 1.50
Gladioli	16.00	to 25.00	3.00	to 10.00	6.00	to 12.00
Asparagus Plumosus, & Sprea. (100 Bchs.)	20.00	to 50.00	35.00	to 100.00	50.00	to 60.00

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI June 9		CHICAGO June 9		BUFFALO June 9		PITTSBURG June 9	
Roses								
Am Beauty, Special	50.00	to 60.00	50.00	to 60.00	35.00	to 40.00	48.00	to 50.00
" " Fancy and Extra	30.00	to 40.00	35.00	to 40.00	25.00	to 30.00	18.00	to 26.00
" " No. 1 and culls	8.00	to 25.00	12.00	to 15.00	5.00	to 15.00	10.00	to 15.00
Russell, Hadley	10.00	to 25.00	5.00	to 30.00	6.00	to 10.00	6.00	to 20.00
Killarney, Ward	6.00	to 15.00	5.00	to 15.00	3.00	to 10.00	4.00	to 12.00
Radiance, Taft, Key	10.00	to 25.00	5.00	to 25.00	3.00	to 10.00	8.00	to 15.00
Ophelia, Sunburst	8.00	to 25.00	5.00	to 15.00	3.00	to 10.00	10.00	to 15.00
Carnations	3.00	to 4.00	6.00	to 12.00	2.00	to 3.00	6.00	to 10.00
Cattleyas	75.00	to 100.00	60.00	to 80.00	75.00	to 85.00	110.00	to 125.00
Lilies, Longiflorum	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00	20.00	to 25.00
Lilies, Speciosum	.....	to .....	.....	to	5.00	to 10.00	.....	to
Callas	12.00	to 15.00	12.00	to 18.00	12.00	to 20.00	20.00	to 25.00
Iris	6.00	to 8.00	15.00	to 20.00	6.00	to 8.00	1.00	to 8.00
Lily of the Valley	6.00	to 8.00	5.00	to 8.00	2.00	to 10.00	10.00	to 12.00
Snapdragon	8.00	to 15.00	10.00	to 20.00	3.00	to 5.00	1.00	to 1.50
Pansies	1.00	to 1.50	.50	to 1.00	.50	to 1.00	4.00	to 6.00
Calendula	2.00	to 3.00	3.00	to 5.00	2.00	to 3.00	2.00	to 4.00
Stocks	4.00	to 8.00	6.00	to 12.00	2.00	to 5.00	.....	to
Wallflowers	.....	to	1.00	to 2.00	.....	to .....	.....	to
Mignonette	.....	to 8.00	6.00	to 8.00	3.00	to 5.00	3.00	to 4.00
Sweet Peas	1.00	to 1.50	1.00	to 2.50	.75	to 2.00	.75	to 1.50
Marguerites	2.00	to 3.00	1.00	to 2.00	1.00	to 1.50	2.00	to 3.00
Gardenias	.....	to	15.00	to 25.00	20.00	to 25.00	.....	to
Adiantum	.....	to 1.00	1.00	to 1.25	1.00	to 2.00	1.50	to 2.00
Gladioli	20.00	to 15.00	3.00	to 12.00	8.00	to 10.00	.....	to
Asparagus Plu. & Sprea. (100 Bhs.)	25.00	to 50.00	50.00	to 100.00	35.00	to 50.00	60.00	to 75.00

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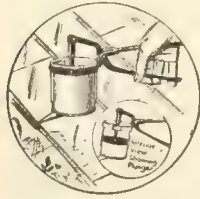
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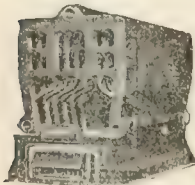


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PATENTED GREENHOUSES

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The Chinese Lilacs.

Most of the Chinese Lilacs have the advantage of flowering later than the common Lilac. Several of the species recently discovered in central and western China are now established in the Arboretum, and, flowering more freely as the plants grow older now begin to show their true value as garden plants in this climate. Perhaps the most distinct and certainly the most unusual of these Lilacs is *Syringa reflexa*. On this plant the flower-cluster is compact, cylindric, unbranched, from an inch to an inch

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and a quarter in diameter, long stalked and is gracefully arching and reflexed. The flowers are deep rose-color with a long slender corolla-tube, and have the disagreeable odor, although to a less degree than those of the Chinese *Syringa villosa* to which this species and the next are closely related, as is shown in their ample leaves dark green on the upper surface and somewhat pale, and slightly hairy on the lower surface. The other species in this group now in flower, *Syringa Sargentiana*, differs in its rather paler flowers white on the inner surface of the lobes of the corolla, and arranged in large, loose, long-branched, erect or spreading clusters sometimes eighteen inches long and twelve inches across. The leaves of this plant are hardly distinguishable from those of *S. reflexa*.

Five of these new Lilacs belonging to the group of which *Syringa pubescens* may be taken as the type are flowering freely this year; they all have fragrant flowers, although less fragrant than those of *S. pubescens*, and slender corolla-tubes. *Syringa Koeh-*

KENTIAS

Kentia Belmoreman. Averaging 2 and 4 leaves, good strong plants out of 2 1/2-inch pots at \$15 per 100—larger quantities on application. J. H. FIESSER, 711-741 Hamilton Ave., North Bergen, N. J.

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neana, which is probably a native of Korea, has broad leaves unusually large for a species in this group, and short, broad, compact clusters of flowers which are pale rose-color on the outside of the corolla-tubes and pure white on the inner surface of the corolla-lobes.

Syringa microphylla, so named for its small dark green leaves, is flowering this year more freely than it has in the Arboretum before; the flowers are small, with narrow corolla-tubes, and are pleasantly fragrant. Unlike other Lilacs, *S. microphylla* has in previous years flowered again in October. *S. Sweginzowii* is covered with flowers again this spring, as it has been now for several seasons. It is a tall shrub with dull green leaves and narrow clusters of fragrant flowers half an inch long, flesh-colored in the bud, becoming nearly white after the flowers open. This species blooms freely as a small plant, and is perhaps the most attractive of the new Lilacs with slender corolla-tubes, although it does not equal in beauty and fragrance *S. pubescens*.

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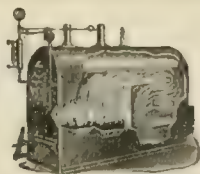
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Principles and Practice of Pruning

By M. G. KAINS

Lecturer on Horticulture, Columbia University

Few practices in the handling of plants, especially fruit bearing plants, attract so much interest as do those of pruning. The methods are so varied, the results so diverse, and the opinions of growers so apparently contradictory that this subject is always one of the most interesting, and the surest to hold attention and arouse discussion.

Particularly during the last ten or fifteen years when the principles of plant physiology have been more and more satisfactorily applied to plant production and management has interest settled in pruning. During the latter half of this time also more and more investigations and tests have been conducted by experiment stations and other workers to test out methods and principles in the interest of science and for the benefit of growers. The accumulation of such new knowledge has become very considerable especially in the last decade, but it is necessarily so scattered that very few growers have access to it, hence the demand for a book, which shall present the really important features of these investigations as well as set forth the fundamental principles based upon the laws of plant growth.

This volume is lavishly illustrated mainly by actual photographs of specimens which show good and bad practices. The author has spared neither time nor expense in gathering his photographs, each one of which tells its story.

After a few pages of introduction the author discusses Plant Physiology as related to pruning. A chapter takes up the Philosophy of Pruning, itself a very interesting subject. Then follows a classification and clear discussion of Buds, very fully illustrated from life. How Wounds Heal is an exceedingly interesting chapter, as are also those on Prevention and Repair of Mechanical Injuries, Pruning Nursery Stock, Young Trees, Mature Trees and Odd Methods of Pruning and Training, Rejuvenating Neglected Trees and Practical Tree Surgery.

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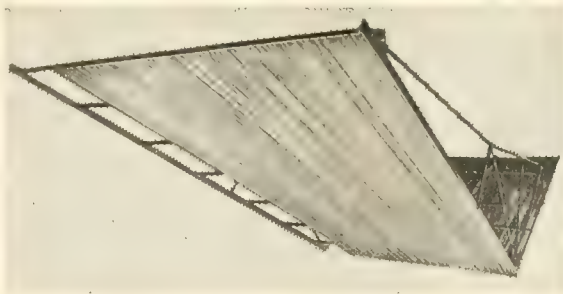
Plant Propagation, Greenhouse and Nursery Practice

By M. G. KAINS

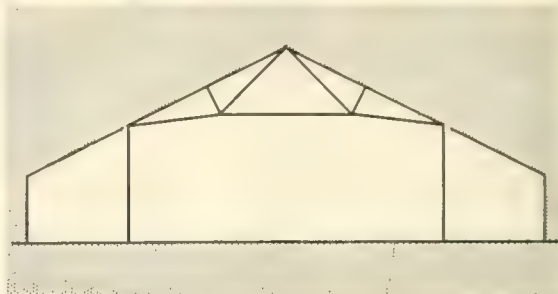
We have had many inquiries from time to time for a reliable and up-to-date book on plant propagation, but were always at a loss to find any publication that we could recommend. The subject has been dealt with in fragmentary manner only in books that have come to our notice. So it is well that this new work has been issued, especially as it is both comprehensive and practical, and it should meet with a ready sale among plantmen, nurserymen and gardeners. There are nineteen chapters covering in detail topics of germination and longevity of seeds, propagating by buds, layering, cuttings, grafting, etc., fruit tree stocks, scions, etc., and there are eight pages of condensed cultural instructions in tabulated form, covering annuals and perennials from seed, woody plants, evergreens, vines, bulbs and tubers, greenhouse and house plants, ferns, palms, water plants, orchids and cacti. The illustrations are numerous, comprising 213 figures and halftone plates. There are 322 pages well bound and on heavy paper, teeming with helpful information. It is a book which no cultivator can afford to do without. It is worth many times its price. Copies can be supplied from the office of HORTICULTURE at publisher's price, \$1.50.

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HORTICULTURE

Vol. XXIX

JUNE 21, 1919

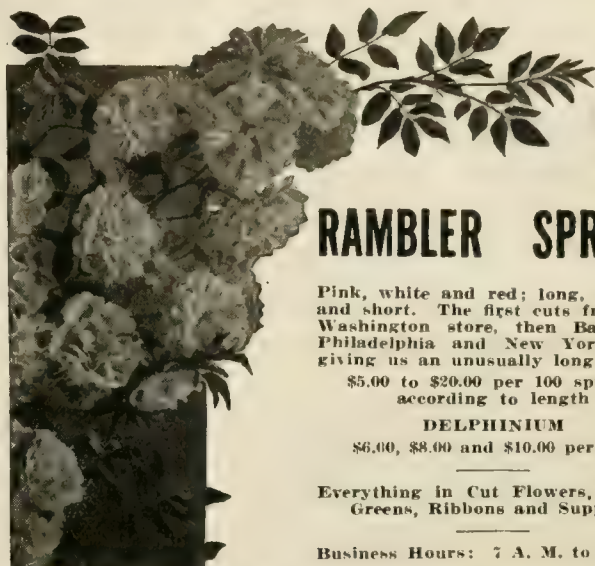
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RAMBLING OBSERVATIONS OF A ROVING GARDENER

It seems that my few remarks about the failure of purchasers to recognize the value of horticultural novelties when offered by nurserymen has created no little interest. What Mr. Wilson said in reply last week is supplemented by a letter just received from a man very prominent in the horticultural world. What he wrote was not intended for publication, I suppose. In fact, if I should publish all that he said I can imagine that something of a furore would be created. A few sentences, though, may well be quoted. They read as follows:

"Rosa Hugonis was put across by publicity. Some nurserymen do not know how to advertise a novelty. They advertise themselves and all that kind of a thing, but do not come out openly with the proper kind of advertising to put across a novelty in which they are supposed to have faith. All too often the nurserymen keep a good plant or shrub hidden from the public. Perhaps the nursery mentioned has been advertising *Acanthopanax ricinifolium* with which you state they are stocked, but if so I have never seen the ad., and I follow this sort of thing pretty closely. All this supports the argument that nurserymen won't go out to sell their goods. They expect the purchasers to hunt around through devious and obscure channels and then to come to the nursery and purchase. In brief the nurseryman advertises thus: 'J. Jones, Nurseryman.—I sell trees.' And thinks he has done a mountain of publicity, although he fails to tell what trees. Just imagine automobile dealers merely announcing that they sell automobiles! The trouble with the nursery business is that the nurserymen haven't the faith in their own goods to tell the public about them."

Now I am not going to comment on this letter. I had my say a couple of weeks ago. But it is certain that *HORTICULTURE* will gladly publish any come-back which a live-wire nurseryman wants to send in. For my part, I hope the discussion will be kept up.

In the end it may work for the good of the trade and the public alike.

I have been finding some interesting observations in certain of the English papers which have just come across. In the *Gardener's Chronicle*, for example, I find a review of an American book, which is rather delightful as showing the critical nature of such reviews, as well as to indicate contrasts in gardening methods here and there. The book discussed is "Practical Gardening" by Hugh Findlay, who is or was, connected with the University of Syracuse, N. Y. Here are the paragraphs mentioned just as they appear in the English paper:

"This book on gardening is intended for American amateurs with small gardens, and it shows that some of the methods practiced in that country are very primitive. The first few chapters are general ones, after which there are some twelve on vegetables, five on fruit, and a calendar at the end. Ornamental plants are not dealt with.

"With regard to vegetable culture there are several plates showing crops, and one is impressed by the poor standard of cultivation. In one case a row of onions is shown with the tops bent over to ripen the bulbs, and we read in the explanatory note that 'many of the bulbs measured two inches in diameter.' We are advised to harvest the bulbs by 'pulling or raking' them out. In the chapter on potatoes sprouting the 'seed' is recommended if an early crop is desired, and 'hilling up should be practiced only where the soil is stiff and the tubers are planted near the surface.'

"There are plenty of illustrations, but we do not think they are well chosen. Moreover, the explanatory notes are mixed up in several cases."

As the writer has not seen the book he is not qualified to judge as to some of the criticisms. But of course it would not seem to gardeners in this country that is any reason for objecting to the statement that potatoes should be sprouted only when an early crop is desired, and that hilling up should not be practiced except in stiff soil and with shallow planting.

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As a matter of fact it is a growing practice among good gardeners to substitute level culture for hilling, not only for potatoes but for most of the other garden crops. In fact this is generally considered an advance over former methods. No doubt there are sharp differences of opinion on this point. In fact I have had strenuous neighborly arguments on this very point, taking issue with a nearby gardener who contends that potatoes should grow out of miniature mountain ranges, while I stand for culture that is pretty nearly level.

As most garden makers know, arsenate of lead alone has never proved an efficient remedy for the rose bug. In fact an efficient remedy seems to have been an unknown quantity, at least up to the present time. Now we are told that a way has been found to deal with this pest, with at least a moderate degree of success. It is found in the simple plan of adding a pint of molasses to every five gallons of arsenate solution. The molasses seems to prove a bait which the bugs cannot resist, and in eating it they get enough of the poison to end their careers. It is at least a plan worth trying, and if it works, will cause a sigh of relief to emanate from the hearts of garden makers the country over.

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HORTICULTURE

Vol. XXIX

JUNE 21, 1919

No. 25

CONSTRUCTION OF AMERICAN ROCK GARDENS

Lovers of nature gradually begin to realize the wonderful opportunities for the exertion of personal ingenuity in gardening by the introduction of the rockery as a distinct feature of home-grounds. That the designing of elaborately built rockgardens will chiefly remain the domain of the landscape architect is certain. Nevertheless, if the amateur without the means of employing artists desires to venture in this special field, I believe we have every reason to encourage him. Rockgardening as a new hobby-horse for even an advanced amateur, however may at the start prove as capricious as a wild broncho. In the present absence of standard American works for advice, the novice depends on foreign books which, on account of climatical differences, prove more or less misleading. This is one of the reasons for the scrutinizing study of professional rockgarden work by interested and self-active home ground owners of today.

Of late I notice our nurserymen, hardy plant growers and enterprising florists doing landscape work as a side issue in the endeavor to meet exigencies have been or contemplate building sample rockeries on their grounds. Like the miniature rockgardens we have seen at some of our recent exhibitions they are calculated to serve the purpose of advertising and as practical demonstrations should indicate the American conception and our present professional standard of workmanship. Now I question did we right at the start realize that the true rockgarden is to represent a combination of what the cultured vision accepts as beautiful in rocks and natural rock formation with the characteristic beauty of mountain vegetations and the flora within regions of high altitudes? We have ceased believing a

rock garden being "appropriate only on large estates where the natural character of the landscape is especially adapted for." With the growing desire for the enjoyment of an enchanting wealth of gaily colored vernal blossoms the purpose of rock construction is to serve as receptacle and stage for effective display. If a flower lover calls on us to build a rockery on his one-acre suburban lot we should aim to make it a distinct feature of beauty on the grounds similar in comparison as for instance an artistic oil canvas of a landscape may give ornamental distinction to a hall or reception room. In such cases the rockery is not part of a natural landscape any more as the oil canvas is part of the wall it happens to be hung upon.

Having the undefinable elements of beauty in natural rock formation in focus we usually face the problems of actual building with a fixed idea of character and general outline but we have no use for any detail plan. The level ground, the slope, the ledge formation and again the ravine with per-

haps running stream and waterfall all require special treatment. The running of paths, the construction of stairwork and occasionally of a bridge are taxing personal ingenuity delightfully. In all this work we aim to obtain the very best effects out of the stone material at our disposal.

Our illustrations of the bare rock work of a rock garden at "Lindenhurst" near Jenkintown, Pa., showing different characters in outline and formation will give the reader an idea of some problems the builder is facing. The location for it was the rather abrupt end of a ridge-like ground elevation with grassy slopes and sparsely scattered tree growth. In the rear there was a natural rock ledge for the most part completely hidden below the surface with only the bluff end of it plainly visible. A driveway running in a semi-circular line around the whole and a rustic summerhouse on top were among the original features to be taken in consideration by the builder.

A picture shows intentional massing of heavy material on top. In doing so we try to adhere to the laws of nature for it is near the summit and the peak of mountains where the bare rock formation is mostly seen.



Rock Work at Lindenhurst



The Work Under Way

In coping with the problems of steep slopes where pocket building is necessary the danger of the total effect assuming a meaningless stone-heap character is ever present. Our illustration of the construction of the "South View" at Lindenhurst suggests heavy rocks and ruggedness to avoid this danger. Notice the great variety in ground elevations and the large size of the pockets enabling the planter to produce the desired color mass effects which constitute the most charming feature of a rockery.

When looking over the composition of the "Rear View" the big solid natural ledge directly back of the two figures is easily recognizable as dominating object and key for the situation. In his attempt to make the summer house appear built on solid rock base the builder fairly succeeded. For the space immediately below the base of the summer house the natural rock ledge demanded ledge-formation. The picture shows the effects obtained with rough quarried rocks. In the foreground nearest to us we see the stairway leading up to the summit with rock work on both sides.

Diversity in effect is one of the coveted means by which we are trying to attract and regale the beholder. Builders and planters of rock gardens today find themselves neither hampered by set rules nor by any established styles to use their material in a way that regardless from what viewpoint or angle we look at their work it should represent a true and ingenious combination of the beauty invested in rocks and natural rock formation with chiefly the characteristic beauty of the mountain vegetation and the flora of high altitudes.

The American home ground owners are getting interested in rock gardens but according to my experience we should keep the fact in mind that those most desirable as clients are also the most discriminative ones.

RICHARD ROTHE.

Glenside, Pa.

CHRYSANTHEMUM SHOW PRIZES.

Interest in the annual exhibition of the Chrysanthemum Society of America to be held in connection with the American Institute show in New York, Nov. 5-7, has been increased by the announcement that several valuable special prizes have been offered. These prizes are as follows:

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Class B.—C. S. A. Silver Cup for the best six vases Pompon Chrysanthemums, six varieties, twelve sprays not less than eighteen inches long to a vase.

Class C.—Lord & Burnham Company prize for twelve blooms, twelve varieties of Chrysanthemums on short stems. First prize, \$20.00, offered by The Lord & Burnham Co., New York, N. Y.

Class D.—The E. G. Hill Company prizes for six blooms of Chrysanthemums, variety Delight. First \$15.00, second \$10.00, offered by The E. G. Hill Company, Richmond, Ind.

Class E.—Elmer D. Smith & Company prizes for four vases disbudded Pompon Chrysanthemums, four varieties, twelve blooms each. Open to all. First \$10.00, second \$5.00, offered by Elmer D. Smith & Co., Adrian, Mich.

Class F.—Chas. H. Totty Company prizes for six blooms of Chrysanthemums, variety Vermont. First, Gold Medal; second, Silver Medal; third, Bronze Medal; offered by The Chas. H. Totty Company, Madison, New Jersey.

Class G.—Chas. H. Totty Company prizes for three vases of Single Chrys-

anthemums. Ten sprays in a vase. Yellow, white and pink. First \$10.00, second \$5.00, offered by The Chas. H. Totty Company, Madison, New Jersey.

Class H.—H. E. Converse prize Silver Cup for the best ten blooms, Bronze Chrysanthemum, one variety on long stem. Open to all. Offered by H. E. Converse, Esq., Marion, Mass.

Class I.—A. N. Pierson, Inc., prize for the best ten blooms White Chrysanthemum, one variety on long stems. Open to all. \$10.00 offered by A. N. Pierson Company, Cromwell, Conn.

Class J.—Henry A. Dreer prize for the best ten blooms, one variety of Chrysanthemum, certificated by the C. S. A. season of 1918. \$10.00 offered by Henry A. Dreer, Philadelphia, Pa.

Class K.—Stumpp & Walter Company prize Silver Cup for eighteen blooms of Chrysanthemum, three varieties, six blooms, each on long stems. Offered by Stumpp & Walter Co., New York, N. Y.

Class L.—Michell's Seed House prize. Silver Medal for the best seedling Chrysanthemum of American origin, not disseminated. Six blooms on long stems. Offered by Michell's Seed House, 518 Market St., Philadelphia, Pa.

Class M.—Weeber & Don prize for the largest bloom of Chrysanthemum, any variety on long stems without artificial support, \$5.00. Offered by Weeber & Don, New York, N. Y.

Class N.—National Association of Gardeners prize. Silver medal for the best six blooms of Chrysanthemums, six varieties on long stems. Open to members of the N. A. G. only.

NEW YORK.

With a liberal supply of roses, carnations and outdoor flowers and a very light demand, conditions are most unsatisfactory.

The quality of a considerable number of roses is good when recent weather conditions are considered. A fair supply of Beauties is coming into the market daily. Some very good and others very poor. Ophelia holds up well with several growers. Good white roses are selling. Outdoor Jacks are in heavy supply. These go to the street pedlars to the exclusion of other flowers for the time being. Carnations as a rule are out of the running, for most of them are sleepy looking when received.

There are still plenty of peonies but few really good ones.

The supply of peas is poor in quality; only a few of the white are wanted.

There is but a limited number of cattleyas to be had and prices have advanced considerably, for Gigas particularly, of which some very fine flowers are seen.

Callas are about finished but some very good Longiflorums are just coming in but the demand for them is light.

Asparagus is plentiful and smilax goes slowly.

ROSES UNDER GLASS IN SUMMER

By Arthur Ruzicka.

With the weather getting warmer and warmer, it will be necessary to take great precautions to keep the roses intended for summer blooming going in full swing. To do this the first thing to guard against will be the hot rays of the sun, and a too dry atmosphere in the houses. The former does harm only at the roots, as roses themselves love sun and plenty of it, but they want their roots moist and cool. To accomplish this it will be necessary to keep the plants well mulched at all times, and if the plants have any growth at all, do not let them get at all dry. Water them well as soon as the soil shows the slightest dryness. Often this will be only along the front rows, and if this is the case, then only the front rows should be watered, but try and have them even so that the whole house can be watered at the same time. Often it will get so that they are rather uneven, then the only thing to do is to give the whole house a thorough watering, going over the dry places first, and then watering the whole house once more and thoroughly, also evenly. To throw the water all over is not watering, as then some plants get it while others get none or very little.

Feeding.

As the plants in the summer grow more rapidly than at any other time they will also take a little more feed than they do at other seasons of the year. We find it will be best to feed the plants regularly, once a week, applying a little bonemeal one week and a little liquid manure the next week. Care should be taken at all times to see that the plants are not too dry when feed in any form is applied. It will be better to water the plants with clear water first, and then apply the feed, and if it happens to be the bonemeal, then water the plants once more, giving them only water enough to soak in the bonemeal. When applying liquid manure, water first with clear water, then apply enough liquid to saturate the soil in the benches without dripping through very much. This will make a little liquid manure go a long way.

Shading.

As a rule I would not advise any shading at all in the rose houses, but there may be an exception here and there where a private grower has a houseful on the south side of some building where the sun is extremely

hot. In such cases it will perhaps be best to shade a little, and the following method will be the best, as the shading can be removed with very little trouble. It is just common whitening mixed with water and applied to the glass on the inside with a syringe such as is found on every private place. Spray the mixture on and if it is done a little carefully there will be very little that will get on the plants, and this will wash off very easily when syringing. To take off the shading it is only necessary to turn the hose on the glass from the inside and it will come right off—no scrubbing to remove, no trouble. For roses it is best to shade this way, as well as for carnations. There will always be enough rays of sunlight get through to keep the plants from suffering, and as the shadows will keep moving all the time there will be no danger of burning anywhere.

Planting.

Planting should now be in full swing, for the better the plants get established and rooted, the better they will flower next winter. One cannot be too careful in preparing the soil for planting, or in cleaning out the benches. See that all old soil is removed, and the old soil cleaned out from under the benches before they are washed out, then whitewash them well, sprinkling the boards with water before the lime is applied. This will make the job easier, and it will be better too, as all cracks will be filled with lime. Use the lime in almost a paste, the thicker the better. By sprinkling the boards well there will be no trouble to apply it. Not only will the lime keep the benches sweet, but it will help preserve the wood. Benches that are well whitewashed every year will last much longer than benches whitewashed very lightly or carelessly. Add a little bluestone to the lime before using it. It will help do away with the fungi that the lime will not kill. Dissolve the bluestone first by hanging it in a bag in a tub of water. Use no metal containers as the stone would soon eat them up. When applying the lime apply it thoroughly so that there will be no nooks where the lime will not get. Do not be too saving on it, as the more that is applied the better. Even if a lot does go under the benches it will do a lot of good and no harm at all.

Syringing.

With the rush of planting on, the

average place may run a little behind with the work. Whatever may have to be let go, see that the syringing is taken care of, so that there will not be a whole lot of spider getting into the houses now, to come forth and make trouble next fall. Rip out all weeds, as they are great homes for spider as well as for a whole lot of other insects that later prey on roses. When syringing see that the hose is applied right where it is needed the most, and that is right under the leaves, and in all nooks and corners, also all back rows. Use good pressure, and syringed once this way, then reversed the next time, there will be no danger of any nests starting up. Should there be, mark them and syringe these out especially well to clean out the spider.

COMING EXHIBITIONS.

Will secretaries please supply any omissions from this list and correct dates that have been altered:

June 21-22, New York—Annual meeting and exhibition of the American Sweet Pea Society at American Museum of Natural History. Wm. Gray, secretary, Bellevue road, Newport.

June 24-25, Jenkintown, Pa.—Exhibition of sweet peas, hardy perennials and hybrid perpetual roses of the Pennsylvania Horticultural Society. David Rust, secretary, 606 Finance Building, Philadelphia.

June 25-26, Newport, R. I.—Summer show of the Newport Horticultural Society at Convention Hall. Fred P. Webber, secretary, Melville, R. I.

July 5-6, Boston, Mass.—Exhibition of sweet peas of the Massachusetts Horticultural Society. Wm. P. Rich, secretary, Horticultural Hall, Boston, Mass.

August 9-10, Boston, Mass.—Exhibition of gladioli and phlox by Massachusetts Horticultural Society. Wm. P. Rich, secretary, Horticultural Hall, Boston.

September 4-6, San Francisco, Cal.—Annual show of the Dahlia Society of California at Palace Hotel. F. C. Burns, secretary, San Rafael.

September 9-11, Hartford, Conn.—Fall flower show of the Connecticut Horticultural Society. Alfred Dixon, secretary, Wethersfield, Conn.

September 11-14, Boston, Mass.—Dahlia, fruit and vegetable exhibition of the Massachusetts Horticultural Society. Wm. P. Rich, secretary, Horticultural Hall, Boston.

September 18-19, Providence, R. I.—Dahlia show of the Rhode Island Horticultural Society. E. K. Thomas, secretary, Kingston, R. I.

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The publicity campaign

There are florists who are yet out of sympathy with the publicity campaign now being carried on, but the number is continually diminishing. More and more, the rank and file are coming to catch a glimpse of what this work means to them personally. Then they become ready to take a hand and help push the thing along. The committees, officers and many enthusiastic members have "worked like beavers," for a year and a half, incessantly, in an effort to make all florists see the wisdom and far-reaching effect of our Publicity Campaign," but there are some "logs" on which the teeth as yet have failed to leave a mark. While it is felt that this labor has not been lost, it is fervently hoped that response will materialize very quickly now. How much better it would be if those designated "non-subscribers" would voluntarily send in the subscriptions they are prompted to make, rather than wait until a personal representative should call upon them. To be obliged to cease effort simply for the reason that the requisite funds were not forthcoming would mean nothing less than disaster. A regular and persistent reminder to a forgetful public has worked wonders for the florists' trade. We must keep the ball rolling.

Beware the Law

What marvelous men are the lawmakers of a country—so earnest in their endeavors to make laws, so anxious to protect everything and everybody by laws, ever on the lookout for opportunity to extend the authority of the law, to make it so all-embracing that we their flock may be so sheltered and protected that no hurt can reach us. How happy the people with such an army of

wise, guardian law-givers. How proud Moses on his celestial throne must be to know that the ten commands he was intrusted with have been so amplified that a million and more ponderous tomes rather than two tables of stone are required on which to inscribe the law. Blessed are the lawgivers, they shall inherit the earth. Beg pardon, "acquire" is a more correct word, and it is questionable whether the future tense is at all necessary.

Our newspapers keep us fully informed of the wise and thoughtful work in general accomplished by the lawmakers, and the journals devoted to more limited interests detail the attention our guardians give to every detail of modern life. Thus in *HORTICULTURE* of June 7th I read that "a bill has been referred to the House Committee on Interstate and Foreign Commerce making it a misdemeanor for any person to ship in interstate commerce any nursery stock which does not bear on each tree, shrub or plant, or on the original unbroken package thereof, a label stating the true, accepted and correct name of the variety of such nursery stock, the name of the person who grew it, and the place where grown. Under the head of nursery stock are included all field and greenhouse-grown plants, such as fruit trees, fruit tree stocks, trees, shrubs, vines, cuttings, grafts, scions, buds, and all other plants or parts of plants for planting or propagation."

The system of naming plants in present use is founded on the work of Linnaeus published in 1753, and from then until now botanists have differed among themselves as to the "true and correct name" certain plants are entitled to bear. In this country there are two schools of botanists. One adopts the so-called Philadelphia code of rules, the other adopts the so-called Vienna code of rules, and they cannot agree as to whether a Pecan, Pignut and Shagbark should be generically called *Hicoria* or *Carya*. The views of the two schools may be likened to parallel straight lines, "being in the same plane, do not meet, however, for they are produced in both directions."

What an extraordinary body of men the nurserymen, seedsmen and florists must be in the eyes of Congress who is going to make them umpire on all these vexed questions of botanical nomenclature and punish failure with fine and possible imprisonment. It is my pleasure to know many nurserymen, seedsmen and florists in this country (and in other countries too for that matter) and I esteem them as wise business men but truth to tell I never realized until Congress pointed it out that the wisdom of these men exceeds that of Solomon and all his ilk.

E. H. WILSON.

P. S.—Since writing the above it has occurred to me that, since Congress considers the nurserymen, seedsmen and florists capable of settling all the botanists' difficulties as to the "true, accepted and correct names" plants should have, it might be a fit and proper thing to send a few of these men to Washington, Paris, Moscow, Peking and other places where differences of opinion obtains and let them settle the trivialities current there. Hanging, or, the Chinese method of slicing into a thousand pieces, might be considered fitting punishment for any failure.

E. H. W.

NEWS AND COMMENT

THAT "ROCKY SHORE."

Maybe that McTavish party who writes about divvies and things in your issue of June 7 thinks he's another Thomas Carlyle and giving us a new edition of Sartor Resartus? Of course we have to get down to bed rock every generation and be able to think naked without tailor patches on our pants but does McTavish think for a moment that he is the only one that can see past his thumbnail? He runs you up against a rocky shore, kicks Towser and laughs, and yet he hasn't said anything. Silliest thing I have ever read. Let me ask McTavish something. Did he ever play a game of poker? A game of poker has depths within depths. For instance, a man bluffs on a bobtail flush and if you are a good judge of human nature you know that he is bluffing. So you call him. And you rake in the pot. Dead easy! All you have to be is a good judge of human nature. But suppose that the other fellow is a better judge of human nature than you are and he gets you to call him—the poor innocent simp as you think—and he then has the audacity to lay down in front of you a straight flush. And rake in the pot! So you try again and assume the innocent act when you have a corker of a hand and, blast it all, there isn't a darn one of the six around the table will cough in more than a few cents. So the innocent act in that case does not really seem to be the solution of the poker game. A friend of mine tells me that when things are going steadily against you a good idea is to ask for a stop as you hear the dogs howl along the bay. No one wants to stop so you ask your friend Eddie to take your place for a little while. When you come back you are delighted to find that he has gathered in one dollar forty-nine cents and things begin to look good to you. But just about then the other sons of guns all want to go to bed as it is 12 o'clock and they have scruples about playing poker on the Sabbath Day. Daniel suggests a game of Roodles to wind up. But no. The majority rules and that ends it. From this brief sketch McTavish may get a glimmering that there are many other things besides divvies that lead to God knows where and he and Towser may as well cut off that smirk and bark and sit down in the kirk solemnly and be-

have. What that Kelt and that Terrier need is a good drooking of cold water.

MACINTOSH.

BOSTON PEONY SHOW.

The peony show at Horticultural Hall, Saturday and Sunday was one of the season's best exhibits and was largely attended, especially on Sunday. There was a noticeable lack of amateur exhibits, however, a fact to be regretted. For that matter the total number of exhibitors was small, but those who did show came forward in a most commendable way.

J. K. Alexander of East Bridgewater had 150 varieties, some of the choice ones being Innocence, pink, with yellow stamens; Felix Crouse, a deep double red; Monsieur Dupont, white, with ragged edge of pink; Flashlight, pink, with stamens of peculiar shape, and Welcome Guest, a giant pink variety, with large, heavy petals.

The Pride of Essex, a new seedling, was shown by T. C. Thurlow's Sons, Incorporated, of West Newbury. The firm has entered 100 named varieties for the prize of the American Peony Society. The Thurlows are to send out a carload of peonies to Detroit, Mich., for exhibition.

The showing made by R. & J. Farquhar & Co., occupies a position in the centre of the hall, and many varieties were grouped in a mound effect, with a tall vase with Walter Faxon as a centerpiece.

John Allen French Fund.

Peonies, Herbaceous—Collection of 20 named varieties, double, one flower of each: 1st, T. C. Thurlow's Sons, Inc.; 2d, H. F. Chase. Collection of 12 named varieties, double, one flower of each: 1st, T. C. Thurlow's Sons, Inc.; 2d, J. K. Alexander. Specimen bloom, double: 1st, G. N. Smith, Therese; 2d, H. F. Chase, Germaine Bigot. Collection, 12 named varieties, single, one bloom of each: 1st, T. C. Thurlow's Sons, Inc. Collection, six named varieties, double, White, one flower of each: 1st, T. C. Thurlow's Sons, Inc.; 2d, Mrs. D. W. McKissock. Collection, six named varieties, double, Rose Pink: 1st, T. C. Thurlow's Sons, Inc.; 2d, Mrs. D. W. McKissock. Collection, six named varieties, double, Salmon Pink: 1st, T. C. Thurlow's Sons, Inc.; 2d, Mrs. D. W. McKissock. Collection of six named varieties, double, Red or Crim-

son: 1st, T. C. Thurlow's Sons, Inc.; 2d, Mrs. D. W. McKissock.

The American Peony Society's Medal.

For the best collection of Herbaceous Peonies, not more than 100 varieties, named, one flower of each: T. C. Thurlow's Sons, Inc.

Honorable Mention.

E. J. Shaylor, seedling peonies Mildred, Luella Shaylor, and No. 75; R. & J. Farquhar & Co., collection of seedling peonies; G. N. Smith, collection of peonies; R. & J. Farquhar & Co., display of peonies; T. C. Thurlow's Sons Inc., collection of peonies; J. K. Alexander, display of peonies.

Vote of Thanks.

Hillcrest Farm, display of garden flowers.

Gratuity.

G. P. Gardner, Jr., display of hydrangeas.

Honorable Mention.

Hillcrest Farm, collection of strawberries.

ROCHESTER.

Rochester is to have a rose show rivaling the famed ones of Portland, Ore., and Los Angeles. At a meeting June 13, at the Chamber of Commerce the Rochester Rose Society completed its organization and voted to sponsor a gigantic rose exhibition on Monday, June 23rd. Six hundred and fifty varieties of roses will be displayed at this show in thousands of blossoms. Indications are that it will be the most gorgeous display the Flower City ever has seen. The exhibits will be banked in groups so that their various colors will harmonize perfectly. The Chamber of Commerce has been chosen tentatively as the home for the show.

Charles H. Vick is father of the project. He will co-operate in making the exposition one that will surpass even those on the Pacific Coast for beauty, and which will attract lovers of flowers to Rochester. To exhibit one must become a member of the Rochester Rose Society. Three specimens of a given rose will form an exhibit. The show will open at noon and close the same evening. The Rochester Rose Society was born a few weeks ago and now has one hundred members. June 18th was its second meeting. The following officers were chosen for its initial year. President, John Dunbar; vice-presidents, Frederick G. Barry, A. Schoenfelder; park supts., Calvin C. Laney, Erickson Perkins, Miss Kate Gleason, Mrs. T. A. Whittle, S. P. Moore and

Wm. T. Morse; Secretary, C. L. Shepard; treasurer, Charles J. Malloy; executive committee, Campbell A. Baird, Frederick G. Barry, C. J. Mallory, Mrs. T. A. Whittle, Mrs. Edward Bausch and Mrs. E. A. Webster.

Corporal Lester Brome of 312th Infantry, has returned from France after 14 months abroad.

Charles Gow has taken a position with the Rochester Floral Co. Mrs. Smith of the same firm has been transferred to H. E. Wilson's store.

The Rochester Florists' Association held the last meeting of the season June 13th and discussed the importation of plants, and arrangements were made for a Florists' picnic to be held August 6th at Nine Mile Point.

Peonies, the queen of the market, are arriving in great quantities. Gladiolus, larkspur, snapdragon, stocks, lemon lilies are arriving in great quantities. Carnations are getting scarce and are poorer each day. Roses of all kinds are over-plentiful but of poor quality. Sweet peas of all kinds are plentiful. Fresh southern ferns have helped out the scarcity of several weeks. Good asparagus and galax are arriving.

BOSTON.

June weddings are keeping the Boston market reasonably active, at least in some lines. There is a big demand for sweet peas, the white and Spencer pink varieties. Prices rule high and all the offerings are taken quickly. The peas are very good in quality and are taking the place of valleys which are out of the market altogether. The last-ling qualities of peas are good, making them more popular at this season than roses. The latter accordingly are down in price. Carnations, too, are in very plentiful supply without any great demand. Peonies have been at their best this week and have sold very well, but they are not as plentiful as they would have been had the late frost not killed many buds. The popularity of the peony is steadily growing and it is coming to be increasingly conspicuous as a florist's flower. Glads are coming in freely and selling reasonably well with the prices declining. Probably there will be a better market for them after the peonies have gone. All in all it is a normal June market.

Henry Robinson, Jr., is to attend the summer school at Columbia University this summer. After his experience in the navy he is glad to be back into civilian garb, and has been resting up at his father's summer home. While in camp he made a rep-

utation as editor of the camp paper and seems likely to make a successful career for himself in the journalistic field.

PHILADELPHIA.

The week of June 9 to 14 in Philadelphia was quite an improvement on its predecessor, chiefly because the big glut was conspicuous by its absence, and everything with any quality to it at all cleaned up all right. The rose market was in good healthy condition and there was plenty of stock for all demands. Carnations were also pretty fair both as to quantity and quality for the season, although they are beginning to show the effect of the advancing season. Delphiniums are very choice and give a welcome touch in the blues and lavenders. Gladioli are also fine, some exceptionally fine lots of America, Princeps, Mrs. Francis King, etc., to be seen, big long spikes with perfect foliage and large flowers. Outdoor flowers are abundant and in good variety—adding quite a little to the interest and general get-up to the market. One of the best items in that connection are the Rambler Rose sprays in various colors and varieties. These are in great demand for decorations.

Philadelphia visitors: Mrs. Schultz, Charlotte, N. C.; Miss Agnes Bogan, Sumter, S. C.; Mr. and Mrs. Herbert A. Pennock, Jupiter, Fla.; H. Christian Andersen, Copenhagen, Denmark; Elmer Weaver, Ronks, Pa.

OBITUARY.

William J. Quinlan.

William J. Quinlan, one of the best known florists of Syracuse, N. Y., recently passed away.

Born in Ireland in 1856, Mr. Quinlan came to this country with his parents in 1857. His father, William Quinlan, Sr., was engaged in agricultural pursuits until his death, in 1881.

When his brother, P. R. Quinlan, bought out the Smith & Powell floral interests he entered his employ and a short time later became a partner. He was a partner for about 20 years and although he sold out his interests, he was still connected with the business.

After the death of his brother he managed the business until it was re-organized.

Mr. Quinlan married Miss Sarah Coyne, who survives, as do two daughters, the Misses Marie F. and Laura A. Quinlan. Mr. Quinlan was a member of the C. M. B. A., Branch 49, and Syracuse Lodge 625, L. O. O. M.

Joseph E. Simpson.

Joseph E. Simpson, head rose grower for C. & G. L. Pennock, Lansdowne, Pa., died on the 13th inst. from an attack of acute Brights disease after a brief illness. He was 39 years of age and leaves a widow and three children. His early training was in England, after which he came to this country and started in with his uncle, Robert Simpson. Later he increased his experience with George Reinberg, Chicago; Fred Breitmeyer, Detroit; John Welsh Young, Philadelphia, and for the past two years with Messrs. Pennock at Lansdowne. He was highly thought of, both professionally and personally by all who knew him, and his sudden passing away at a comparatively early age is a great shock to his sorrowing friends and family.

Gilbert A. Noyes.

Gilbert A. Noyes, aged 73, a well-known gardener of Newburyport, Mass., died at the Anna Jaques Hospital recently. For many years he was employed at a large estate on High street. He retired a few years ago. He was a member of the O. U. A. M. He leaves two daughters, Mrs. Fred M. Robbins of this city and Mrs. Albert H. Beckford of West Newbury.

CANADIAN HORTICULTURAL SOCIETIES.

Now the war is over the horticultural societies of Canada are becoming very active.

The Guelph Horticultural Society has issued a most attractive annual announcement and premium list. On the front cover appears a colored illustration of an aster, the flower which has been chosen as the city's floral emblem. Two interesting announcements are to the effect that two firms in the city, in order to assist the society to increase its membership to 2,000 have consented to give a dollar's worth of garden seeds and plants to people who purchase a dollar membership ticket in the Horticultural Society in their stores.

Rev. Mr. Tebbs, a former president of the Ontario Horticultural Association, has organized a horticultural society at Burlington, Ont., where he is now located, with over one hundred members.

The Lindsay Horticultural Society for 1918 and 1919 in addition to giving its members a year's subscription to The Canadian Horticulturist gave in the fall premiums of six hyacinths, six tulips and two daffodils, worth about \$1.50, and in the spring will give another premium worth 50c.

THE GARDENERS' SECTION

REMEDY FOR ONION MAGGOTS. Seattle Gardener Finds One That Gives Much Satisfaction.

Seattle, Wash., June 12, 1919.

Dear Sir:—

In "The Gardener's Section" of *HORTICULTURE*, of May 17, 1919, a question was asked regarding a remedy for onion maggots.

These maggots are a great pest in this vicinity, especially in light soils and make the successful culture of onions, radish, turnips and cabbages almost impossible, unless a protection of cheese cloth is used.

This year I have used Red Seal Lye with great success on onions, the only one of the above mentioned vegetables I planted here this year and have not found one maggot so far, whereas in former years hardly 5 per cent. were fit to use by this time, and onions in neighboring places which were not treated with lye are almost ruined by the maggots.

I spray the onions once every eight or ten days with a solution made by diluting one ordinary can of Red Seal Lye in fifteen gallons of water aiming to moisten the soil around the onions rather than the tops though this spray will not harm the latter materially but encourage the growth of the onions in a wonderful way.

I have used only Red Seal Lye up till now and do not know if other brands will give the same good results.

Yours very truly,

P. E. STENNEBERG,
Gardener to Mr. C. D. Stimson

THE STYRAX JAPONICA OR SNOW- DROP TREE.

The beautiful *Styrax japonica* proved hardy with us through the cold winter of 1917 and '18 and is now in full blossom, contrasting the delicacy of its dainty white flowers with the dark rich red of the *Eva Rathke* dier-villa in bloom just behind it. Our tree or shrub is six feet tall and very compact in its growth, making a round bush with a spreading top. The whole shrub suggests the delicacy and exquisiteness which we associate with Japan. The leaves are smooth and translucent showing their veining very distinctly when held toward the light. They are smooth with only a slight dentation and taper both towards the stem and to the apex. The upper side

of the leaf is a little darker and more glossy than the reverse. In color the *Styrax* suggests the bridal beauty of the orange-tree, having the dark foliage with the pure white blossoms and yellow stamens. This beauty of color is enhanced by the red hue of the upper side of the stems of its twigs. The bell shaped blossoms have either four or sometimes five petals and hang in pendulous clusters of five; three coming at the terminal of the twigs and two growing out from the petioles of the leaves. These five long thread-like stems make the clusters of blossoms very graceful. The long pointed buds add to the dainty effect. There is a slight, delicious fragrance.

The *Styrax* to be fully appreciated should be examined as it has a tendency to hide its flowers in the fulness of its growth, instead of flaunting them to the passer-by as the snowball viburnum does, proud of its wealth of bloom.

M. R. CASE.

Hillcrest Farm, Weston.

THE GINGKO AS A SEASHORE TREE.

The value of the *Gingko biloba* as a seashore tree has been demonstrated in the Park system at Boston. Two lines of these trees were planted in the spring of 1916 at City Point, South Boston, bordering on the water front; and subjected to a north-eastern exposure. They have grown remarkably well, and have proven themselves equal to the location. Their ability to withstand the rigors of such an exposure was demonstrated in the severe winter of 1917-18.

The value of this beautiful tree to produce a picturesque effect has been unquestioned among arboriculturists; although its hardness is proven, and its freedom from insect injury unquestioned. There is, however, an objection to the pistillate form, on account of the obnoxious odor; it is therefore advisable to procure the staminate tree.

In addition to its aesthetic importance, it is also of great educational value, in as much as it is perhaps the most interesting tree in existence. It is a solitary species of a solitary genus, and we learn that it is the sole survivor of many species which grew abundantly in the carboniferous age; although, deciduous, it is classed among the conifers.

This beautiful tree should be more widely known, and its use in private and public grounds encouraged. It is however, used to a great extent in Washington, D. C. as a street tree, where it has proven its value as such.

RICHARD J. HAYDEN
Park and Recreation Dept.

NEW ENGLAND.

John Seastrone, for 25 years superintendent of parks and commons at Manchester, N. H. has resigned. Daniel F. Cronin, city forester, has been appointed to succeed him. Mr. Cronin will also continue in charge of the city forestry work.

Edwin Jenkins of Bellefontaine has been appointed an advisor on landscape work for the Pittsfield park commission. Mr. Jenkins, who is superintendent of Giraud Foster's estate, has a wide reputation as florist, gardener and landscape engineer.

Lewis K. Colton of Hudson has begun work for the Bay State Nurseries at North Abington, Mass.

Walter Dock has become head gardener on the estate of C. H. Hutchins at Shrewsbury, Mass.

P. E. Sanborn of Beverly has been granted a permit to build a forty foot greenhouse.

NEW YORK.

Robert Grieves has become superintendent of the A. H. Alker estate at Great Neck, N. Y.

Harry Brudelow, who has been engaged in war work for some time, is now head gardener on the Poor estate at Southampton.

Hugo P. Stenstrom is now head gardener of the H. L. Blum estate called Rockledge at Hartsdale.

A friend of the public schools of Yonkers has sent to Schools Number One, Number Nine and Number Twenty-two six thousand aster and cosmos plants for distribution among the children of these schools. This friend says that the public schools is his religion.

Dr. Charles T. Mitchell has been re-elected president of the Canandaigua Botanical Club at the last meeting.

Mr. Frederick Boughton, of Pittsford, exhibited a remarkable collection of ferns and orchids from Panama, giving interesting descriptions of them.

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OMAHA, NEB.**MOCK ORANGES OLD AND NEW.**

Gardens old and new owe much to the Philadelphus, writes Prof. Sargent in the Arnold Arboretum bulletin for this week. He then continues: In New England gardens of more than a century ago it was one of the chief ornaments and with the Lilac and a few old-fashioned Roses, the Syringa or Mock Orange (Philadelphus coronarius), was loved and carefully tended; and in our modern gardens there are few plants which produce more delightful flowers than some of the Syringas make in recent years by the art of the plant breeder. There are now established in the Arboretum some thirty species of Philadelphus and a large number of varieties and hybrids. All these plants, popularly called Syringas, are easy to manage, demand no special care, and suffer less from the attacks of insects than most trees and shrubs. They flower freely year after year, their flowers are often very fragrant, and in rich, well-drained soil the plants live for a long time. Some of the species can grow under the shade of overhanging trees, and flower in such situations more freely than almost any other shrub.

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which is a dry capsule, has as little beauty as that of a Lilac; there is nothing distinct or particularly interesting in the habit of the plants of any of the species, and the leaves fall in autumn without brilliant coloring. As flowering plants not many shrubs, however, surpass them in beauty, and their value is increased by the length of the flowering season which extends in the Arboretum during fully six weeks.

The first Philadelphus to flower in the Arboretum, opened its flowers several days ago; it is from Korea (*P. Schenkii* var. *Jackii*), and is a tall narrow shrub with erect stems and flowers of medium size, and is of no exceptional value as an ornamental plant. Almost as early to flower is *P. hirsutus* from the southern Appalachian Mountain region. This is one of the smallest flowered species and in the Arboretum is a large loose-growing shrub of unattractive habit, and of comparatively little value as a garden plant.

It is to be regretted that the *Syringa* of old gardens (*P. coronarius*) has been pushed aside by newer introductions and has become comparatively rare in at least this part of the country, for the flowers of no other *Syringa* have a more delicate and delightful perfume. This plant, which is a native of western Europe, reached England before the end of the sixteenth century, and was probably one of the first shrubs which the English emigrants brought with them to this country. Among the American species which should find a place in all gardens are *P. inodorus*, *P. pubescens* and *P. microphyllus*. The first is a native of the Appalachian Mountain Region and grows to the height of six feet; it has arching branches and large, solitary, pure white, cup-shaped, scentless flowers. By some persons it is considered the most beautiful of all *Syringas*. *P. pubescens*, often called *P. grandiflorus* or *P. latifolius*, is also a plant of the southern Appalachian region. It often grows to the height of twenty feet; the branches are stout and erect, the leaves are broad, and the slightly fragrant flowers are

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arranged in erect, from five to ten-flowered racemes. This plant is more common in gardens than the last and when it is in bloom it makes a great show. *P. microphyllus*, which rarely grows more than three feet tall, has slender stems, and leaves and flowers smaller than those of any *Philadelphus* in cultivation. What the flowers lack in size, however, is made up in fragrance which is stronger than that of any other *Syringa* and perfumes the air for a long distance.

The most distinct and the handsomest of the Asiatic species in the Arboretum is *Philadelphus purpureus*, discovered by Wilson in western China. It is a large shrub with long arching stems from which rise numerous branchlets from four to six inches long and spreading at right angles; on these branchlets the flowers are

borne on drooping stalks; they are an inch and a half long, with a bright purple calyx and pure white petals, which do not spread as they do on most of the species but form a bell-shaped corolla and are exceedingly fragrant. This is one of the handsomest of the shrubs brought from western China to the Arboretum. *Philadelphus pekinensis* from northern China and Mongolia is a stout bush rather broader than high which every year produces great quantities of small flowers tinged with yellow.

Another interesting garden plant, *P. Falconerii*, which is certainly Asiatic and probably Japanese, has narrow lanceolate leaves and fragrant flowers in from one to six-flowered racemes, and is distinct in the shape of its leaves and in its long narrow petals.

One of the first of these hybrids to attract attention was raised in France before 1870 by Monsieur A. Billard; it is known as *Philadelphus insignis* and sometimes is called *Souvenir de Billard*. It is one of the handsomest of the large-growing *Syringas*, and the last or nearly the last to bloom in the Arboretum, for the flowers will not be open for another month. A hybrid probably between *P. grandiflorus* of the Appalachian Mountain region with a species from our northwest coast appeared in the Arboretum a few years ago and has been named *P. splendens*; it is a large and vigorous shrub with unusually large flowers, and one of the handsomest *Syringas* in the collection. *Philadelphus maximus*, a supposed hybrid between *P. latifolius* from the southeastern United States, and *P. tomentosus* from the Himalayas, grows to a larger size than any of the other *Syringas*. It is not rare in old Massachusetts gardens in which plants from twenty to thirty feet high can occasionally be seen. The crossing about thirty years ago in France by Lemoine of *P. coronarius* with *P. microphyllus* has produced an entirely new race of *Syringas* which has proved to be one of the best additions to garden shrubs that has ever been made. The first plant obtained by this cross is called *Philadelphus Lemoinei*; it is a perfectly hardy shrub four or five feet high and broad, with slender stems, which bend from the weight of countless flowers; these are intermediate in size between those of the two parents and retain the fragrance of *P. microphyllus*. There are at least a dozen distinct forms of this hybrid made by Lemoine, varying considerably in the size of the plants and of the flowers, and in the time of flowering.

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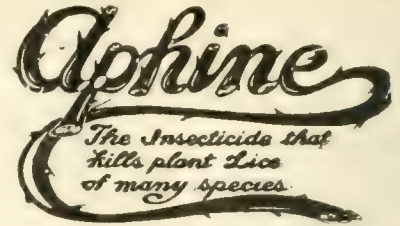
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Young & Lester, Walla Walla, Wash. (addl.)	5.00
John Feiden, Jr., Great Falls, Mont. (addl.)	5.00
Electric City Conservatory, Great Falls, Mont. (Addl.)	5.00
State Floral Co., Yakima, Wash.	10.00
M. Langohr, Bazeman, Mont.	10.00
Chas. M. Kranz, Great Falls, Mont.	10.00
Hoyt Bros. Co., Spokane, Wash. (Addl.)	25.00
Spokane Florist, Spokane, Wash. (addl.)	15.00
Peters & Son, Hillyard, Wash. (addl.)	5.00
Spokane Greenhouse, Wash. (addl.)	10.00
Glenrose Greenhouse, Spokane, Wash. (addl.)	5.00
Leavey & Sons, Spokane, Wash. (addl.)	5.00
Engene Flower Shop, Spokane, Wash. (addl.)	5.00
Einer Sinclair, Spokane, Wash. (1 yr.)	5.00
Ins & Klaffnubash, Spokane, Wash. (1 yr.)	5.00
H. L. Olsson, Spokane, Wash. (addl.)	15.00
Columbia Floral Co., Butte, Mont. (addl. 3 yrs.)	25.00

\$560.00

Previously reported 36,795.50

Total \$37,355.50

JOHN YOUNG, Secy.

NEW YORK QUOTATIONS PER 100. To Dealers Only

	Last Part of Week ending June 15 1919	First Part of Week beginning June 16 1919
American Beauty, Special	20.00 to 35.00	10.00 to 30.00
" " Fancy and Extra	12.00 to 20.00	6.00 to 12.00
" " No. 1 and culls	2.00 to 10.00	1.00 to 5.00
Russell, Hadley	3.00 to 30.00	2.00 to 15.00
Killarney, Ward	2.00 to 6.00	1.00 to 5.00
Radiance, Taft, Key	3.00 to 25.00	.75 to 15.00
Ophelia, Sunburst	2.00 to 10.00	.50 to 8.00
Carnations	3.00 to 8.00	.50 to 1.50
Cattleyas	20.00 to 50.00	30.00 to 125.00
Lilies, Longiflorum	10.00 to 12.00	40.00 to 25.00
Lilies, Speciosum	..... to .....	..... to
Callas	8.00 to 16.00	8.00 to 10.00
Iris	4.00 to 6.00	1.00 to 2.00
Lily of the Valley	2.00 to 6.00	6.00 to 12.00
Snapdragon	2.00 to 6.00	1.00 to 2.00
Pansies	.50 to 1.00	.10 to .50
Calendula	5.00 to 15.00	2.00 to 3.00
Stocks	2.00 to 6.00	1.00 to 3.00
Wallflowers	..... to	1.00 to 2.00
Mignonette	2.00 to 3.00	1.50 to 3.00
Sweet Peas	.75 to 2.00	.15 to 1.00
Marguerites	1.00 to 2.00	.25 to 1.00
Gardenias	6.00 to 25.00	5.00 to 25.00
Adiantum	.75 to 1.25	.75 to 1.00
Gladioli	6.00 to 12.00	4.00 to 6.00
Asparagus Plumosus, & Spreng (100 bunches)	15.00 to 30.00	15.00 to 25.00

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON June 16	ST. LOUIS June 16	PHILA. June 16
Roses			
Am. Beauty, Special	25.00 to 35.00	50.00 to 60.00	30.00 to 40.00
" " Fancy and Extra	12.00 to 20.00	25.00 to 40.00	20.00 to 30.00
" " No. 1 and culls	1.00 to 6.00	5.00 to 15.00	5.00 to 15.00
Russell, Hadley	4.00 to 18.00	3.00 to 15.00	10.00 to 25.00
Killarney, Ward	2.00 to 6.00	3.00 to 6.00	3.00 to 6.00
Radiance, Taft, Key	3.00 to 12.00	3.00 to 8.00	10.00 to 25.00
Ophelia, Sunburst	2.00 to 8.00	2.00 to 8.00	4.00 to 10.00
Carnations	1.00 to 2.00	1.50 to 3.00	4.00 to 6.00
Cattleyas	50.00 to 75.00	50.00 to 75.00	75.00 to 100.00
Lilies, Longiflorum	16.00 to 25.00	80.00 to 25.00	20.00 to 25.00
Lilies, Speciosum	8.00 to 20.00	..... to .....	..... to
Callas	16.00 to 20.00	15.00 to 25.00	20.00 to 25.00
Iris	2.00 to 4.00	6.00 to 10.00	10.00 to 12.00
Lily of the Valley	16.00 to 20.00	6.00 to 8.00	8.00 to 10.00
Snapdragon	4.00 to 12.00	2.00 to 4.00	8.00 to 10.00
Pansies	.25 to 1.00	..... to	5.00 to 6.00
Calendula	1.00 to 2.00	2.00 to 4.00	2.00 to 3.00
Stocks	1.00 to 4.00	5.00 to 8.00	.90 to .75
Wallflowers	3.00 to 4.00	..... to .....	..... to
Mignonette	2.00 to 4.00	2.00 to 4.00	3.00 to 4.00
Sweet Peas	.25 to 1.00	.20 to .75	1.00 to 2.00
Marguerites	1.00 to 4.00	.50 to 1.00	.50 to .75
Gardenias	10.00 to 25.00	..... to	30.00 to 40.00
Adiantum	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Gladioli	16.00 to 25.00	3.00 to 10.00	6.00 to 12.00
Asparagus Plumosus, & Spreng (100 Bchs.)	20.00 to 30.00	35.00 to 100.00	50.00 to 60.00

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI June 16	CHICAGO June 16	BUFFALO June 16	PITTSBURG June 16
Roses				
Am. Beauty, Special	50.00 to 60.00	50.00 to 60.00	30.00 to 40.00	40.00 to 50.00
" " Fancy and Extra	30.00 to 40.00	35.00 to 40.00	20.00 to 30.00	17.00 to 25.00
" " No. 1 and culls	8.00 to 25.00	12.00 to 15.00	3.00 to 10.00	10.00 to 15.00
Russell, Hadley	10.00 to 25.00	5.00 to 30.00	6.00 to 10.00	6.00 to 10.00
Killarney, Ward	4.00 to 10.00	5.00 to 15.00	3.00 to 8.00	4.00 to 12.00
Radiance, Taft, Key	10.00 to 25.00	5.00 to 25.00	3.00 to 10.00	8.00 to 15.00
Ophelia, Sunburst	5.00 to 12.00	3.00 to 15.00	1.00 to 2.50	6.00 to 12.00
Carnations	3.00 to 4.00	6.00 to 12.00	2.00 to 3.00	4.00 to 10.00
Cattleyas	75.00 to 100.00	60.00 to 80.00	75.00 to 85.00	100.00 to 125.00
Lilies, Longiflorum	15.00 to 20.00	15.00 to 20.00	15.00 to 20.00	20.00 to 25.00
Lilies, Speciosum	..... to .....	..... to	6.00 to 10.00	..... to
Callas	12.00 to 15.00	12.00 to 18.00	15.00 to 20.00	20.00 to 25.00
Iris	6.00 to 8.00	15.00 to 20.00	3.00 to 5.00	6.00 to 8.00
Lily of the Valley	6.00 to 8.00	5.00 to 8.00	8.00 to 10.00	10.00 to 12.00
Snapdragon	6.00 to 8.00	5.00 to 20.00	2.00 to 3.00	1.00 to 1.50
Pansies	1.00 to 1.50	.50 to 1.00	.50 to 1.00	4.00 to 6.00
Calendula	2.00 to 3.00	3.00 to 5.00	1.00 to 3.00	2.00 to 4.00
Stocks	3.00 to 4.00	6.00 to 12.00	2.00 to 5.00	..... to
Wallflowers	..... to	1.00 to 2.00	..... to .....	..... to
Mignonette	..... to	8.00 to 6.00	2.00 to 5.00	3.00 to 4.00
Sweet Peas	.50 to 1.00	1.00 to 2.50	.50 to 1.50	.75 to 1.50
Marguerites	2.00 to 3.00	1.00 to 2.00	.50 to 1.00	2.00 to 3.00
Gardenias	..... to	15.00 to 25.00	15.00 to 20.00	..... to
Adiantum	..... to	1.00 to 1.25	.50 to 1.00	1.50 to 2.00
Gladioli	6.00 to 12.00	3.00 to 12.00	8.00 to 10.00	..... to
Asparagus Plu. & Spreng (100 Bchs.)	25.00 to 50.00	50.00 to 100.00	35.00 to 50.00	60.00 to 75.00

GULF CYPRESS



Greenhouse Materials

Pecky Cypress Bench Lumber

GLASS

GULF CYPRESS

HOT BED SASH

ALL KINDS AND SIZES

Unglazed\$0.85 up
Glazed 2.05 up

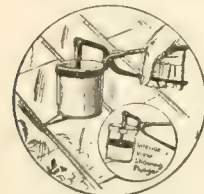
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LIQUID PUTTY MACHINE

Will last a lifetime,
\$1.25 each

"SEAL TIGHT LIQUID PUTTY"

will not harden,
crack or peel off.
\$1.35 per gallon in
10 gallon lots.
\$1.40 per single
gallon.



HOSE

Non-Kink Woven
In any length (one piece) with
couplings, 15c. per foot. Un-
equalled at any price.



HOSE VALVE 75c

All brass except the hand
wheel. Has a removable
leather disk which is easily
replaced to keep water tight.
Stuffing box prevents leaks at
stem.



BOILERS METROPOLITAN

Patented

Very best green
house boiler of its
size. Will do more
work than any
other. Comes in all
sizes. Quickest act-
ing—almost instan-
taneous. Offered at
our old prices. Or-
der at once.



Metropolitan Material Co.
PATENTED GREENHOUSES

1297-1325 Flushing Ave., Brooklyn, N. Y.

COMING MEETINGS.

Austin, Tex.—Texas State Florists'
Ass'n, meeting and trade exhibition,
July 9 and 10. Louis J. Tackett, Sec'y,
Austin, Texas.

New York City—American Sweet
Pea Society, exhibition June 21 and
22, at the Museum of Natural History.
Secretary Wm. Gray, Bellevue avenue,
Newport, R. I.

Toronto, Can.—Canadian Horticul-
tural Association convention Aug. 12,
13, 14 and 15.

CLASSIFIED DIRECTORY

Advertisements in this Department, Ten Cents a Line, Net

ASTERS

Asters, Queen of the Market, Vick's
Royal and Henderson's Invincible, in
white, shell pink, rose pink, lavender and
purple; strong plants, \$6.00 per 1,000. Cash.
BRILL CELERY GARDENS, Kalamazoo,
Mich.

BEDDING PLANTS

SALVIA—AGERATUM—VERBENAS
on hand in 3 in. pots. Fine rugged plants.
Also have a thousand assorted geraniums
in 3, 3½ and 4 in. pots. Owing to sickness
did not sell out before. FRANKLIN
STREET GREENHOUSES, Derry, N. H.

BULBS

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

CANNAS

For the best Up-to-Date Cannas, get new
price list, THE CONARD & JONES CO.,
West Grove, Pa.

CARNATION STAPLES

Split carnations quickly, easily and
cheaply mended. Pillsbury's Carnation
Staple, 1000 for 35c.; 3000 for \$1.00 post-
paid. I. L. PILLSBURY, Galesburg, Ill.

CELERY PLANTS

Celery Plants, Easy Blanching; now
grown exclusively by 90% of Kalamazoo
growers in place of Golden Self Blanching.
Strong plants, ready for the field; \$2.25 per
1,000; \$6.00 for 3,000. Cash. BRILL CEL-
ERY GARDENS, Kalamazoo, Mich.

DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell.
\$10.00 per clump. Cash with order.
JOHN P. ROONEY, New Bedford, Mass.

New Peony Dahlia—John Wanamaker.
Newest, Handsomest, Best. New color, new
form and new habit of growth. Big stock
of best cut-flower varieties. Send list of
wants to PEACOCK DAHLIA FARMS,
Berlin, N. J.



IMP Soap Spray is a scientifically pre-
pared compound that is destructive
to insects without injuring plants or
roots. Does not spot leaves, fruit, grass
or deface paint work. It is clean and
colorless. May be used on fruit trees;
shade trees; flowering shrubs; vines;
garden truck; and on all sorts of plants,
both under glass and out of doors.

It is most effective against rose bug;
mill bug; white, black, green and rhodo-
dendron fly; red spider, thrips; aphids;
fruit pests; elm leaf beetle and moths.
Used in country's biggest orchards and
estates. Very economical, one gallon is
mixed with 25 to 40 gallons of water.
Full directions on each can. Genuine
can has Ivy Leaf trade mark. Your
money back if Imp Soap Spray does
not do as claimed. Order direct if your
dealer cannot supply.

Pint can	\$0.50
Quart can .....	.75
Gallon can	2.25
5 Gallon can	10.00
10 Gallon can	18.00

Sent by express at purchaser's expense

F. E. ATTEAUX & CO., Inc., Props.
Eastern Chemical Co.
176 Purchase St., BOSTON, MASS.
Dealers Wanted

GLASS.

Greenhouse glass, lowest prices. JOHN-
STON GLASS CO., Hartford City, Ind.

KENTIAS

Kentia Belmorenan—Averaging 3 and 4
leaves, good strong plants out of 2¼-inch
pots at \$15 per 100—larger quantities on
application. J. H. FIESSER, 711-741
Hamilton Ave., North Bergen, N. J.

PEONIES

Peonies. The world's greatest collection,
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

VINES

Flowering and Foliage Vines, choice
collection. Large Specimen, Pot and Tub
grown for immediate effect; also Climbing
Roses. J. H. TROY, Mount Hissarlik Nur-
sery, New Rochelle, N. Y.

WIRE WORK

WILLIAM E. HEILSCHER'S WIRE
WORKS, 264 Randolph St., Detroit, Mich.

AZALEA CALENDULACEUM.

A lover of flowers who has had the
good fortune to see the yellow-flow-
ered Azalea in June on the wooded
slopes of the southern Appalachian
Mountains can never forget it. North
America does not offer a more beauti-
ful flower show. No other North
American shrub has such brilliantly
colored flowers; and no other Azalea
hardy in New England can be com-
pared with it in the variety of color
found in its flowers. The flowers of
the Korean Azalea Schlippenbachii
are larger and more delicate in texture
and color, and those of the Japanese
A. Kaempferi are more surprising, for
it is always a surprise to find the
bright red flowers of this Azalea on a
bare New England hillside. These
plants when they are in flower look
exotic here and do not fit our Ameri-
can surroundings as well as our yel-
low-flowered plant. The flowers, too,
of the American plant remain in good
condition longer than those of any of
the Asiatic Azaleas, and they were not
injured by the excessive heat of last
week which spoiled the flowers of
many other plants. A good many
plants of R. calendulaceum have been
raised at the Arboretum from seed,
and many of the seedlings which are
now blooming on Azalea Path show
the variation in the color of the flow-
ers from clear yellow to flame, which
adds to the interest of a collection of
these plants in early June.

—Arnold Arboretum.

THE BOILER OF Unequalled Fuel Economy

Kroeschell Boilers, the best by test since 1879. Forty years' experience.

THE QUALITY PLACE OF BOSTON

Regarding the Kroeschell, it is the best we have ever had and satisfactory beyond our expectations. It heats up especially quick and has saved us considerably already in the price of fuel. When we are in need of another boiler we will give the Kroeschell the first consideration.

(Signed) WM. W. EDGAR CO.,
WAVERLEY, MASS.

No Masonry—No Tubes



TUBELESS BOILER

Kroeschell Bros. Co., 466 W. Erie St.
CHICAGO

When You Buy—Get a Kroeschell

3,016,286 sq. ft. of glass was equipped with Kroeschell Boilers during the year of 1916.

OHIO'S CELEBRATED CYCLAMEN SPECIALIST

After using your No. 12 Kroeschell Boiler I came to the conclusion that had I to install more boilers it would be the Kroeschell and no other. It really is a pleasure to heat, no trouble to get the desired heat in a very short time.

(Signed) CHRIST. WINTERICH,
DEFIANCE, OHIO.

ADVANCE SASH OPERATING DEVICES AND GREENHOUSE FITTINGS

are neat strong and durable. Our prices, our service and the quality of our materials will always appeal to you.

Write for catalogue.

ADVANCE CO., Richmond, Ind.

Why not send in an order for Permanite?

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Box 9, National Union Building
Washington, D. C.

Principles and Practice of Pruning

By M. G. KAINS

Lecturer on Horticulture, Columbia University

Few practices in the handling of plants, especially fruit bearing plants, attract so much interest as do those of pruning. The methods are so varied, the results so diverse, and the opinions of growers so apparently contradictory that this subject is always one of the most interesting, and the surest to hold attention and arouse discussion.

Particularly during the last ten or fifteen years when the principles of plant physiology have been more and more satisfactorily applied to plant production and management has interest settled in pruning. During the latter half of this time also more and more investigations and tests have been conducted by experiment stations and other workers to test out methods and principles in the interest of science and for the benefit of growers. The accumulation of such new knowledge has become very considerable especially in the last decade, but it is necessarily so scattered that very few growers have access to it, hence the demand for a book, which shall present the really important features of these investigations as well as set forth the fundamental principles based upon the laws of plant growth.

This volume is lavishly illustrated mainly by actual photographs of specimens which show good and bad practices. The author has spared neither time nor expense in gathering his photographs, each one of which tells its story.

After a few pages of introduction the author discusses Plant Physiology as related to pruning. A chapter takes up the Philosophy of Pruning, itself a very interesting subject. Then follows a classification and clear discussion of Buds, very fully illustrated from life. How Wounds Heal is an exceedingly interesting chapter, as are also those on Prevention and Repair of Mechanical Injuries, Pruning Nursery Stock, Young Trees, Mature Trees and Odd Methods of Pruning and Training, Rejuvenating Neglected Trees and Practical Tree Surgery.

Profusely illustrated. 400 pages. 8½ x 8 inches.
Cloth. Net, \$2.00.

HORTICULTURE PUBLISHING CO.
147 Summer St., Boston, Mass.

Plant Propagation, Greenhouse and Nursery Practice

By M. G. KAINS

We have had many inquiries from time to time for a reliable and up-to-date book on plant propagation, but were always at a loss to find any publication that we could recommend. The subject has been dealt with in fragmentary manner only in books that have come to our notice. So it is well that this new work has been issued, especially as it is both comprehensive and practical, and it should meet with a ready sale among plantmen, nurserymen and gardeners. There are nineteen chapters covering in detail topics of germination and longevity of seeds, propagating by buds, layering, cuttings, grafting, etc., fruit tree stocks, scions, etc., and there are eight pages of condensed cultural instructions in tabulated form, covering annuals and perennials from seed, woody plants, evergreens, vines, bulbs and tubers, greenhouse and house plants, ferns, palms, water plants, orchids and cacti. The illustrations are numerous, comprising 213 figures and halftone plates. There are 322 pages well bound and on heavy paper, teeming with helpful information. It is a book which no cultivator can afford to do without. It is worth many times its price. Copies can be supplied from the office of HORTICULTURE at publisher's price, \$1.50.

HORTICULTURE PUBLISHING CO.
147 Summer St., Boston, Mass.

In Writing to Advertisers kindly mention Horticulture

"I'll be Hanged if I Ever Buy from that Firm Again," he said

WHEN CREDIT WAS REFUSED HIM. But whose fault was it that credit had been refused him. Let us dig into the facts, let's analyze.

First we find the florist purchased flowers of a given value. That he gave his promise to **PAY PROMPTLY.**

We also find that the florist's reputation for **PROMPT PAYMENT** of **BILLS** entitled him to credit. That is, he had always paid **PROMPTLY.**

He received merchandise that he needed at a time when he needed it most. No long waits or delays.

He also understood at the time the purchase was made that the account was to be paid promptly—when due. No other arrangement was made at the time of purchase regarding payment.

Thirty, sixty, ninety days have passed and several statements have been mailed—but with no response. While stamps and time in the one individual case do not amount to much—collectively—they become quite a big item to be reckoned with, when a number of accounts are taken into consideration.

It makes an expense item to be reckoned with instead of an item which should have produced an additional profit. As a matter of fact it isn't good business. It isn't the kind of a business transaction you would tolerate in your own business, and still tender credit.

Now the question for you to decide is—

Is any florist justified in his statement, "I'll be hanged if I ever buy from that firm again."

What would you have done?

S. A. F. & O. H. Credit and Collection Committee

HORTICULTURE

Vol. XXIX

JUNE 28, 1919

No. 26

ROSES

OWN ROOT, 3-INCH, \$15.00 PER 100
\$140.00 PER 1,000

- 2000 CECILE BRUNNER
- 1200 HADLEY
- 1000 COLETTE MARTINET
- 4000 WHITE KILLARNEY
- 2000 DBL. WHITE KILLARNEY
- 2200 KILLARNEY BRILLIANT
- 3000 MRS. AARON WARD

A. N. PIERSON, Inc.
CROMWELL, CONN.



GLADIOLI

King, America, Halley, Schwaben, and other good varieties, well grown stock, long stems.

**\$10.00, \$12.50
per 100**

Everything in
Cut Flowers, Plants, Greens,
Ribbons and Supplies

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7 A. M. to 4 P. M.

S. S. PENNOCK COMPANY

The Wholesale Florists of Philadelphia

NEW YORK
117 W. 28th St.

PHILADELPHIA
1608-1620 Ludlow St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON, 1216 H St., N. W.

Surplus Bedding Plants at Reduced Prices to Close Out

We offer the following slight surplus in bedding plants, which we offer as follows as long as unsold:

	Per 100
ABUTILON—Eclipse, 2½ in. pots.....	\$4.00
ABUTILON—Eclipse, 3½ in. pots.....	10.00
AGERATUM—Blue, White, dwarf, 2¼ in. pots.....	4.00
ALTERNANTHERA—Aureo nana, Brilliantissima and Paronychiodes major, 2½ in. pots.....	4.00
ALYSSUM—Tom Thumb, Double White, 2¼ in. pots.....	4.00
BEGONIA—Erfordia, 3½ in. pots.....	12.00
CANNAS—Buttercup, Tarrytown, Venus, 3½ in. pots.....	12.00
CANNAS—Beaute de Poitevine, Egandale, Pierson's Premier, Florence Vaughan, New York, Souv. d'Antoine Crozy, 3½ in. pots.....	10.00
CELOSIA—Childs, Thompsoni magnifica, 2¼ in. pots.....	4.00
CENTAUREA—Gymnocarpa, 2¼ in. pots.....	4.00
COBEA—Scandans, 3 in. pots.....	\$1.50 per dozen
COLEUS—Golden Bedder, Firebrand, Verschaffeltii, etc., 2¼ in. pots.....	4.00
GERANIUM—Mme. Sallerol, heavy, 2¼ in. pots.....	6.00
HELIOTROPE 2¼ in. pots.....	4.00
HYDRANGEAS—Pink, in bud and bloom, 5 in. pots	50 cents each
IVY—English, 3½ in. pots.....	16.00 to 20.00
IVY—English, extra heavy, 3½ in. pots.....	25.00
LEMON VERBENA—3½ in. pots.....	\$2.00 per dozen
MARIGOLDS—Dwarf French, Tall African, 2¼ in. pots.....	4.00
PETUNIA—Single, 2¼ in. pots.....	4.00
SALVIA—Splendens, 2¼ in. pots.....	4.00
TRADESCANTIA—Multicolor, 2¼ in. pots.....	4.00
VERBENAS—Separate colors, 2¼ in. pots.....	4.00
VINCAS for Bedding—Alba pura, Rosea albo, Rosea, 2¼ in. pots.....	6.00
VINCAS, Trailing for Baskets—Major, 3½ in. pots.....	16.00
ZINNIAS—Separate colors, 2¼ in. pots.....	4.00

F. R. PIERSON, Tarrytown, N. Y.

Geraniums

We have a fine lot of 2-inch stock for immediate shipment of all the kinds we list in our catalogue which are such as **Beaute Poitevine, Alph. Ricard, Abbie Schaffer, Miss F. Perkins, etc.** \$2.75 per 100, \$25.00 per 1,000. We are booking orders for next season.

Hardy English Ivy, good strong 2-inch stock, \$2.50 per 100, \$22.50 per 1,000.

Table Fern, good strong 3-inch plants, fine assortment at \$6.00 per 100.

R. Vincent, Jr., & Sons Co.

WHITE MARSH, MARYLAND

Send for Catalogue

Cash with Order

CYCLAMEN PLANTS

Farquhar's Gold Medal Strain

Strong Plants in 3½ in. pots, \$25.00 per 100
Trade Price on Application

R. & J. FARQUHAR & CO. - - BOSTON, MASS.

IF in need of RELIABLE NURSERY STOCK

that is well grown, well dug and well packed

Send to the **BAY STATE NURSERIES**

Wholesale and Retail

NORTH ABINGTON, MASS.

BOBBINK & ATKINS

NURSEYMEN, FLORISTS, PLANTERS
RUTHERFORD, NEW JERSEY

We are subscribers to the Nurserymen's Fund for Market Development, also "Buy It With Flowers" Publicity Campaign.

H. HEISTAD
LANDSCAPE GARDENING
ROCKPORT, ME.

We are Headquarters for the **BEST OF EVERYTHING**
IN

VEGETABLE SEEDS

With our Stock Seed Farm at Grass Lake, Mich., and our growing stations in every part of the United States where seeds are grown successfully, all in charge of capable and experienced men, we are equipped for and are producing

PEAS, BEANS, CORN AND VEGETABLE SEEDS
of all kinds in quantity and of highest quality.

Glad to quote for present delivery or on growing contract for crop of 1919.

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RAMBLING OBSERVATIONS OF A ROVING GARDENER

A shrub which has excited considerable interest and aroused much admiration in the Arnold Arboretum this spring is *Xanthoceras sorbifolia*. The question is often asked why the plant is not more often grown in private gardens, and no doubt not a few garden makers will order it. It is really a fine plant, with dense clusters of flowers and attractive pinnate foliage. A recent writer has wondered why it is not more commonly grown and listed by nurserymen. Perhaps the reason is the unfortunate habit which this plant has of suddenly dying out after a few years and for no apparent cause. It is not a plant which can be recommended with confidence to customers, handsome as it is. This *Xanthoceras* is by no means a new plant, despite its rarity. Several years ago when Mr. J. G. Jack, of the Arnold Arboretum, was in Japan, he visited the late Mr. Meyer, the government's well-known plant hunter. Mr. Meyer was just examining a large rough fruit, as hard as a horsechestnut, when Mr. Jack arrived. Mr. Meyer showed his visitor the nutlike fruit and told him that he believed he had discovered something new and interesting. Mr. Jack looked at the fruit and then informed his host that he was quite familiar with it, as the plant was growing in the Arboretum and he could give him all the facts about it. Mr. Meyer was somewhat disappointed, but no doubt was saved considerable useless labor.

The English "Garden" has a paragraph about the origin of the loganberry which will be interesting to readers of the article written by Miss Marian Roby Case and published in *HORTICULTURE* a few weeks ago:

"Mr. E. A. Bunyard writes to say that he has recently been informed by a lady who knows the loganberry well that when in 1904 she visited Jalapa in Mexico she was surprised to see the natives bringing in loganberries from the hills, where they presumably grew wild. Has any other reader heard of South America as a locality for this fruit?"

Another issue of "The Garden" contains a letter in the editorial column about the destruction of wild growth,

a matter which was taken up in a recent article by Mr. E. H. Wilson in *HORTICULTURE*, which article, by the way, has been given wide circulation in one of the daily papers. The letter referred to and the editorial comment read as follows:

"Mr. Warner is certainly right in trying to find some method by which this destruction of our wild growth should be stopped. The waste is awful. Children, and even the bigger ones, destroy for the fun of destroying; they pick flowers, then, being too lazy to carry them, drop them. This is not the worst, but it does not remain with me to relate all that I have seen. I think that some punishment ought to be given to those who destroy wild growth. A fine for children over twelve would in some cases stop much of this destruction. G. W. W.

"(We are not in favor of punishment. If children are taught to love our native flowers, they will not waste them. We know a garden in Walworth where flowers are freely grown. When this garden was started a few years ago, the flowers were picked, even before they opened, by children. The children, having now been taught that the flowers are grown there for the enjoyment of all, do not, except in rare cases, attempt to pick the flowers, and this is in the heart of London! How much easier should it be to teach country boys and girls where school gardens have such a good influence on children. Ed.)"

In one of the magazines a plea is made for a wider planting of the little native rhododendron known as *Rhodora*, a plant which grows all the way from Newfoundland to Pennsylvania, and which flowers early in the spring. It is not a conspicuous plant, and is at its best in a naturalized planting. I do not believe that it should be recommended for general use in the small garden, but there are places where it can be employed to a distinct advantage. Some years ago Mr. Thomas E. Proctor, of Topsfield, bought a whole carload of these plants and had them set out on his estate. I hardly think, though, that the effect has been as striking as was expected.

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HORTICULTURE

Vol. XXIX

JUNE 28, 1919

No. 26

MORE LETTERS ABOUT CLOSING HOURS

Toronto, June 20, 1919.

Dear Sir:—

It is with great interest that I have read the letters in the last issue of *HORTICULTURE* in reference to *EARLY CLOSING*. Your correspondents all seem to wait for "the other fellow" to do something, and for that reason there is nothing done.

Sunday closing in Canada is a law and a good one. The sale of anything but food or medicine is prohibited, so there is no difficulty on the score of one keeping open and the other having to in order to keep up his end.

A few years ago the conditions were just the same here as in the States as far as night closing was concerned, but upon the organization of the Toronto Retail Florists' Club things took a turn for the better.

The first move was made when the club had their first picnic and all stores closed for the half day. There was some opposition to it by those who thought that the business would go to the dogs if they were not there 24 hours a day. However, as the club was pledged to work together and do as the majority ruled, all stores closed and you could not buy a flower in Toronto that afternoon. As we advertised the fact extensively we had no complaints and all felt better for the outing.

Last winter we voted to all close one afternoon a week during July and August but the point was which afternoon.

It was finally decided that it be left to the districts and the members use their own judgment.

In the meantime Dunlops advertised that hereafter their store would close at 1 o'clock every Saturday during July and August, with the result that Tidy & Son, Dillemath, J. J. Higgins, Simmons & Son and the Little Grey Flower Shoppe, in fact all the stores in the business district would close Saturday afternoons. The stores in the residence districts were to close on Wednesday to conform with the early closing movement of the grocers and markets.

Mr. Dunlop was the first to enter into the spirit of this movement and closes his store every evening during the year at 6 o'clock and at 1 p. m. on all holidays. In fact, all the larger stores have the same hours.

It is really pathetic to read the letters from florists saying that they are generous to their employers when they close part of Sunday. Where on earth nowadays will you be able to get good help to work the hours that the owners of floral establishments expect their help to work? Why, the lowest class of labor will kick at eight hours a day and you florists wish your help to work on an average of 80 hours a week! It is high time that the florist business was put in the class in which it belongs, and not that of a cheap junk shop. There is absolutely no reason for the long hours except that the owner (who, by the way, goes and comes as he pleases and can take a day or two if he wishes) wants to make an extra dollar at the expense and detriment of the health of his employees.

You hear the argument that there are funerals and functions on Sunday that necessitates keeping open. That is all bunk! When people find they are unable to get a thing on Sunday they will get it Saturday. Toronto is a city of over half a million, and what can be done here can be done elsewhere.

The only correspondent that seems to be up to date is Mr. A. M. Herr of Lancaster, Pa., who seems to have the right spirit. Mr. Gude runs him a close second, which seems strange, as he is always first; no doubt the spurt will come.

The Philadelphia correspondent who we have always looked up to as a leader, frankly states that he follows the other fellow. Thus are our GODS made of clay. St. Louis works from 7 a. m. to 6 p. m. and noon on Sunday. Ye Gods, think of any one with artistic ability getting up and going to work at 7 a. m. on Sunday! Eight a. m. is bad enough, but 7—Mr. Murray of Kansas City is on the right track and you will always notice that if you want to get in the lead you have to look in the West to find the

reason. Here is hoping that florists will place the business in the class to which it belongs, and not keep it in the all night class. You hear florists complain that they are unable to get competent help. Where in the world is there a young man nowadays who will learn an occupation that compels him to labor the long hours that florists expect their help to keep? IT CAN'T BE DID!

DUNLOP'S, GEO. M. GERAGHTY, Mgr.

Detroit, June 21, 1919.

Gentlemen: It has been our custom for many years to close on Sundays, insofar as it is possible, in the florists' business. This means that when we have orders for funerals or anything which must be delivered on Sundays, we do so. Our store is not open, however, for any business.

In regard to hours of business. As you know, the florists' business hours is foreign to almost any other business and it is practically impossible to have any fixed rule.

The opening hours of our stores are from 8 a. m. to 5.30 p. m. The men employees' hours are from 7.30 a. m. to 6 p. m. We find that this rule works out very well, and seldom is it necessary for us to extend these hours.

We find that the public learn our hours and fit themselves accordingly. During the winter we have one of our stores open in the evening until nine o'clock. This store is situated near the big hotels and we find it necessary to keep open. The man in charge, however, is paid for his time, and when he pleases to have an evening off he changes with one of the other men, and in this way they find it a benefit instead of a hardship.

Our summer months are not fixed; we usually open from 8 a. m. to 5 p. m., but at no time do we open on Sundays, excepting holiday time, which is of course understood.

Personally, I believe that the florists' business hours can be arranged as well as any mercantile business if those in charge will live up to the rules.

Yours very truly,

PHILIP BREITMEYER.

Edwardsville, Ill., June 19, 1919.

Dear Editor:—

I am interested in your editorial and the comments on shorter hours for florists, in the June 14th issue of your journal.

For the last fifteen years our greenhouse men have worked only nine hours a day, with no Sunday work except cutting stock and very necessary watering, and with Saturday afternoons off during summer months.

While in the retail business we ran as other local merchants—7 a. m. to 6 p. m., and on Saturday to 9 p. m.; but no Sunday sales whatever. We always had Sunday funerals, but all our flowers were delivered on Satur-

day evening for them, and we had no complaint at all to speak of.

The trouble is that we watch the other fellow too much; it's just up to each individual himself. I say close on Sunday by all means, for your own sake, your family's sake, your employees' sake, and in reverence to your God.

I am indeed glad the sentiment of shorter hours for all employers as well as employees is growing. Beginning July 1 we shall go on an eight-hour schedule, and I am sure all will be better pleased.

Let's all adopt the great universal American custom of an eight-hour day's work.

Success to your worthy movement.

J. F. AMMANN.

A Curious Twist of Facts About Laurel

By E. H. Wilson.

If anyone doubted that mountain laurel, the state flower, known to botanists as *Kalmia*, was in blossom at this time, he should have watched the procession of automobiles late on Sunday afternoon along any of the trunk lines of the State. One man, who had curiously regarded the matter, counted forty cars bearing the blossoms passing his home in thirty minutes, this being on only one of the several country roads running through the country in which this blossom is found.

Though *Kalmia* is the State flower, officially recognized by act of the Legislature, Section 6275 of the Revised Statutes is so worded as to permit automobilists and other lovers of the flower to gather it at their pleasure, assuming that they do not gather it for sale. If they attempt to do that and are caught at it and cannot show that they gathered it with the permission of the owners of the land upon which it grew they are liable to various penalties of an unpleasant sort. No one gathered it on Sunday, we assume, with any such sordid aim.

The law has its uses, but even without it one feels that the supply of *Kalmia* in this state will not be exhausted, for, while it has a marked liking for rocky woodlands along the shore, it is even more common in northern and central Connecticut. The shrub is beautiful when in bloom, but no farmer appreciates its beauty, for he realizes that it is not a product of really valuable land. It will form, if left to its own devices, an impenetrable thicket and though left to itself,

until the end of time it will not develop into wood or into lumber. Hard and close-grained its wood is indeed, but it fails to grow to a size which makes it of value.

It is long lived and grips the territory which it has chosen for its own with an enduring clasp, and while its blossoms make it a thing of beauty in June and its evergreen leaves are not ill to look upon in the winter, these things do not compensate the farmer for the tax which he pays on the land upon which it thrives. It does not appeal to him, but now it is wonderfully attractive to the residents in the cities and larger towns. They forget that the blossoms are not especially beautiful when plucked from the shrubs on which they grew or if removed from their habitat. Still there will be a supply for those who pluck the blossoms for many years to come.—*Hartford Courant*.

Clipped from the columns of the *Boston Transcript* of Saturday, June 21st, the above is worthy of thoughtful perusal. Damning with faint praise is no new art and it has lost nothing in the hands of the scribe who indited this note in the *Hartford Courant*. If the note is intended to increase its readers' appreciation of the mountain laurel it is of a truth curiously phrased. A stranger within the gates might infer from it that the farmers in Connecticut were so poor that the very taxes on the bit of land on which grows the mountain laurel were driving them into bankruptcy. True, the state is a small one, but surely it is not so ground hungry that it cannot spare the land on which grows its own accepted state flower!

The newspapers are the greatest force in moulding thought and opinion and in educating the people. This everlastingly appraising everything in dollars and cents is the curse of the age. Here is a representative newspaper of one of the (for its size) richest states in the union actually writing as if it begrudged a little of its countryside to its most beautiful native shrub because its wood "fails to grow to a size which makes it of value." The newspaper admits with evident reluctance that "its blossoms make it a thing of beauty in June and its evergreen leaves are not ill to look upon in the winter (but) these things do not compensate the farmer for the tax which he pays on the land upon which it thrives." Pshaw! Such puerile talk is unworthy of a people acclaimed the richest on earth. A cynic whilst admitting the material wealth might retort that in appreciation of the beautiful the people are among the poorest on earth. Happily this article from the *Hartford Courant* does not correctly reflect the true opinion of the people of Connecticut; otherwise the mountain laurel would not have been the elected state flower. What is required, however, on the newspaper's own showing, is the enforcement of the law against the indiscriminate plucking of laurel branches. If this is not done the generations of Connecticut people which come afterward will have to visit the museums where dried specimens of plants are preserved if they wish to get an idea of what their state flower was like.

COMING MEETINGS.

Austin, Tex.—Texas State Florists' Ass'n, meeting and trade exhibition, July 9 and 10. Louis J. Tackett, Sec'y, Austin, Texas.

Toronto, Can.—Canadian Horticultural Association convention Aug. 12, 13, 14 and 15.

Detroit, Mich.—S. A. F. and O. H. Convention at Acadia Hall, Aug. 19, 20 and 21. Secretary, John Young, 1170 Broadway, N. Y. City.

Hartford, Conn.—Conn. Hort. Society, fall flower show, Sept. 9, 10 and 11. Sec'y Alfred Dixon, Wethersfield, Conn.

New York City.—The American Institute and the American Dahlia Society, exhibition of dahlias in the Engineering Building, 25-33 West 39th St., Sept. 23 to 25. William A. Eagleson, 322-324 West 23d St., Secretary.

FERTILIZERS FOR FLORISTS

By Dr. J. H. Wheeler, Formerly Director of the Rhode Island Agricultural Experiment Station.

There is no subject connected with the use of fertilizers which is so difficult, so little understood, and regarding which agricultural experiment stations have learned so little, as that of the use of fertilizers in greenhouses. The question is especially complicated by the great variation in plant requirements and by the varying susceptibilities of different plants to injury from different residual chemical substances which may accumulate in the soil as a result of the manures used or of the plants grown.

The use of lime is intimately connected with the use of fertilizer, since lime not only affects the availability of the fertilizers but also the ability of the plants to thrive, so that they can make proper use of the plant foods which the fertilizer contains. The whole subject of the effect of lime on most of the flowering plants grown under glass is still practically a "sealed book." In order to illustrate the difficulty of giving definite information on these subjects, I can do no better than refer to some of my earlier experiments with fertilizers in a greenhouse at the Rhode Island Agricultural Experiment Station.

In these experiments a subsoil was used in the hope of avoiding fungous or bacterial diseases and insects which might prove injurious; at that time many of the best growers were in the habit of using subsoil for these reasons. In one case hay and in another case straw, cut in very short lengths, was mixed with the soil and these mixtures were compared with a mixture of horse manure and soil. Two different fertilizers were used in the experiment with the hay and with the straw. In one of these fertilizers the presence of residual sulphates and chlorides was largely avoided by the employment of such fertilizer materials as would be likely to be completely or largely taken up by the plants.

Lettuce, radishes, and cucumbers made a better growth with this fertilizer than with the one which contained considerable amounts of sulphates and chlorides, although a moderate application of lime had been made in both cases. With tomatoes, on the other hand, distinctly better results were se-

cured with the fertilizer containing the greater amounts of sulphates and chlorides. Whether this was due to the fertilizer inducing a different chemical reaction in the soil or to a possible need of more sulphur by the tomato plant, which the sulphate residues of the fertilizer furnished, I do not know and never have had a chance to ascertain.

Where Lime Helped

Similarly, in field experiments it was found that lettuce, onions, spinach, mignonette, and poppy were absolutely unable to live on a soil where the flowering perennial, *Silene orientalis*, thrived to perfection, although an abundance of plant food was present. The use of lime in this case corrected the condition for all of the plants. More recent investigations by Dr. B. L. Hartwell and his associates lead to the belief that the injury to the lettuce, mignonette, and other plants was partly or largely due to the presence in the soil of soluble aluminum compounds which had been formed by the acid, chloride and sulphate residues of the fertilizer. If soluble aluminum salts were the cause of the injury they evidently had no deleterious effect, or a much less serious one, upon other crops, of which *Silene orientalis* is typical. This whole question is evidently closely related to the soil reaction and the possible formation of injurious substances when an excess of certain residual materials accumulates in the soil.

Probably the best fertilizer for general use is one which is compounded so that it will not leave any excessive residue of salts and will not be likely to affect seriously the soil reaction, provided the reaction is suitable at the outset. In the case of some special crops, however, an acidic or basic fertilizer may be required, although this depends upon the chemical reaction of the soil at the outset and the amount of lime or alkaline, animal manure used. There is no positively best fertilizer for all conditions and for all plants, regardless of whether they are grown under glass or in the field.

Fertilizers for Carnations

Different greenhouse plants also vary considerably in regard to the amount of the different fertilizing ingredients which they require. Even

different varieties of the same species have their distinct characteristics. A striking example of this was afforded several years ago in some experiments conducted with carnations. It was found that when the three varieties, Lizzie McGowan, Hector, and William Scott, were grown in the same room under identical temperature conditions, much more nitrogen could be used for the Hector than for either of the other varieties. If the best amount of nitrogen for the Hector was used it was sufficient to cause a serious splitting of the calyx of the William Scott and a considerable splitting in the case of the Lizzie McGowan. I never had a chance to determine whether the large amounts of nitrogen that were used with the best results for the Hector could have been used with safety for the other varieties had they been in a house kept at a lower temperature.

With the replacement of the horse by the automobile, the problem of how we can best supplement small amounts of manure and other organic materials with fertilizers is becoming increasingly important. Let us hope that some agricultural experiment stations will soon delve into these problems more deeply and seriously than any of them have heretofore, in order that a greater fund of definite information may become available.

MASSACHUSETTS FLORISTS.

The engagement is announced of Samuel B. Crombie, proprietor of the Beverly Flower shop, to Miss Lillian Singer, daughter of Mr. and Mrs. Singer of Essex.

The Greenfield Tap and Die corporation has taken over the Sunny Dell greenhouse property at Greenville. Mr. and Mrs. E. A. Richards, have conducted the business for the past 19 years. For the present the greenhouse business will be carried on in the same manner as it has in the past, with Charles A. Thayer, who has been Mr. Richard's assistant for many years as manager. Mr. and Mrs. Richards have worked very hard during the years which they have conducted the greenhouse, and feel that they are entitled to a vacation. Mr. Richards has been a leader in the cultivation of carnations, and has originated several varieties, winning prizes with them at national floral exhibitions. For a time he plans to assist Mr. Thayer in handling the business.

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Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

As this issue goes to press **HORTICULTURE** is moving its offices to new and much more commodious quarters at 78 Devonshire street, next to the Shawmut National Bank. The new offices are in the heart of the business section and close to the market district. Visitors will always be welcome, and those from out of town are invited to make these offices their headquarters when in Boston. The latch string will always be out, except on Saturday afternoon, when the elevator stops running.

Misnamed nursery stock

If federal and state restrictive laws and regulations continue to pile up unwarrantably against those of our citizens who have the misfortune to be engaged in the nursery, florist and seed business of the country, it is not unlikely that many of them will soon be driven to abandon these lines of useful industry and engage in other lines which have not as yet been so regulated as to become undesirable, or utterly impossible to pursue. It may even become necessary for the government itself to step in and furnish supplies in these lines, when those who have heretofore furnished them, have been legislated and regulated out of business. Then, perhaps, we shall see again distributed or sold under government control such seeds or other planting material as the government itself sent out, named or mis-named as the case might be in the days of the "Free Seed Distribution," when bulk rather than quality of strain, purity or vitality seemed to be of most importance. Is it because of the past record of the Department of Agriculture in its congressional seed distribution that the carrying out of the proposed bill, which is

a purely agricultural matter is now shifted, or referred to the House Committee on Interstate and Foreign Commerce? The proposed bill will make it a misdemeanor for any person to ship in interstate commerce any nursery stock which does not bear on each tree, shrub or plant, or on the original unbroken package thereof, a label stating the true accepted and correct name of the variety of such nursery stock, the name of the person who grew it and the place where grown. Now, let's look where these regulations will lead us to. The Concord grape, for example, has had and has today many synonyms, Moore's Early, Campbell's Early, Potter, and many others—all forms of the Concord with variations often so slight as to be almost or wholly indistinguishable. Nearly all yellow cherries are selections or slight variations of the old yellow Spanish variety. Who is competent to pass upon their nomenclature? Then in the case of the popular Japanese Ivy, which shall be the accepted name, *Vitis tricuspidata* or *Ampelopsis Veitchii*? Or again who will tell us authoritatively whether the favorite black greenhouse grape shall be labeled Black Hamburg, Frankenthal, or other of the numerous names by which it is variously known? The nurseryman, florist, or seedsman could not safely ship any goods outside of his own state if anyone is disposed to assail the verity of his labels, or if there is any difference of opinion as to the character of any possible variety, climatic or soil variations notwithstanding. What will the next joker be?

Public rose gardens

The movement for the establishment of public rose gardens in different cities is one worth encouraging by all horticultural interests. Such gardens stimulate the desires of amateurs for rose gardens of their own, which helps the business of nurserymen. For that matter, the retail florists and everybody else engaged in the growing and selling of flowers is benefited by the increased demand, which is certain to result from any work of this kind. The municipal garden need not be a large or costly one to serve its purpose, but it should contain a large percentage of hybrid teas when possible, so that there will be bloom all summer. The city of St. Catherine's in Canada is establishing a municipal rose garden this year, an ex-mayor having contributed a thousand dollars for the purpose. The first bush planted was a Duchess of Wellington, and about 900 plants of different kinds have been set out. It is a matter of regret that the money has not yet been forthcoming which would make possible the establishment of a rose garden at the Arnold Arboretum, in Boston, such as Professor Sargent has been dreaming about for several years. Such a garden would contain every species of wild rose which could be obtained, as well as all the hybrids and modern productions. It would be a garden such as is to be found nowhere else in the world at the present time. The land is available and all that is necessary is the money for its development. Here certainly is an unrivaled opportunity for some wealthy man to perpetuate his name for all time.

NEWS AND COMMENT

THE BOSTON ROSE SHOW.

The rose show at Horticultural Hall in Boston, Saturday and Sunday, was largely attended and gave great satisfaction. One of the most interesting exhibits was that of A. J. Fish of New Bedford, who had a long table filled with many varieties of climbing roses, including Silver Moon, which excited special admiration. Mr. Fish was awarded the Massachusetts Horticultural society's silver medal, the highest award given in the show for an exhibit of 100 vases of climbing roses in 33 varieties. Mr. Fish also took a first prize, cash, for 12 vases of climbing roses.

T. C. Thurlow's Sons sent from Cherry Hill Nurseries in West Newbury nearly a hundred varieties of peonies, including some of the finest specimens of Richardson's seedlings, notably Walter Faxon and Milton Hill, beautiful shades of pink and of enormous size. These growers were awarded the gold medal and five other first Jmenrei asurpeu. througho ag prizes at the exhibit of the American Peony Society in Detroit a few days ago.

R. M. Saltonstall, of Chestnut Hill, a former president of the society, contributed some wonderful specimens of Canterbury Bells and foxglove. W. N. Craig sent from Faulkner Farm a varied assortment of herbaceous plants admirably arranged to show their perfection of bloom. The show was staged by James Wheeler with his usual skill. The awards:

Flowers—John Allen French Fund. Roses—Climbing and Pillar, twelve vases: 1st, A. J. Fish. Hybrid Tea, 24 varieties, one bloom each: 1st, John B. Wills. 12 varieties, one bloom each: 1st, John B. Wills; 2d, Hillcrest Farm. 6 blooms, any pink variety: 1st, David Tyndall. 6 blooms, any red variety: 1st, A. L. Stephen; 2d, Robert Seaver. 6 blooms, any yellow variety: 1st, David Tyndall; 2d, John B. Wills.

John C. Chaffin Fund. Hybrid Perpetual Roses, 12 named varieties, one bloom each: 1st, Wm. C. Winter. 6 named varieties, one bloom each: 1st, John B. Wills; 2d, A. L. Stephen. 6 blooms, any white variety, (for amateurs only): 1st, A. L. Stephen; 2d, Robert Seaver. 6 blooms, any pink variety (for amateurs only): 1st, A. L. Stephen; 2d, Robert Seaver.

John Allen French Fund. Sweet Williams—Display, 18 vases, not less than three trusses each, and not less than six varieties: 1st, A. L. Stephen; 2d, Miss Cornelia Warren. Hardy Herbaceous Flowers—25 vases, distinct species and varieties (commercial growers excluded): 1st, Faulkner Farm.

Silver Medal—A. J. Fish, collection of Climbing Roses: T. C. Thurlow's Sons, Inc., display of Peonies.

Honorable Mention—Richard M. Saltonstall, Foxgloves.

Vote of Thanks—Wm. C. Winter, Roses; Hillcrest Farm, collection of Roses.

Gratuities—Miss Cornelia Warren, collection of Roses; John B. Wills, collection of Roses; Faulkner Farm, Herbaceous Peonies.

Fruits. Theodore Lyman Fund, No. 2. Strawberries—6 plates of 48 berries each, distinct varieties: 1st, Hillcrest Farm. 1 plate, 48 berries, any variety arranged with its own foliage: 1st, Richard M. Saltonstall; 2d, Dr. F. S. DeLue. 1 plate Barrymore: 1st, Hillcrest Farm. 1 plate Golden Gate: 1st, W. C. Cooper. 1 plate Marshall: 1st, Richard M. Saltonstall. 1 plate, Senator Dunlop: 1st, Hillcrest Farm. 1 plate, any other variety: 1st, W. C. Cooper; 2d, Louis Graton. Cherries—Any variety, 48 specimens: 1st, F. W. Dahl.

Gratuities—Louis Craton, plate of St. Martin Strawberries; Dr. F. S. DeLue, plate of Judith Strawberries.

Vegetables. William J. Walker Fund. Beans—String, 50 pods: 1st, Faulkner Farm; 2d, Faulkner Farm. Beets—12 open culture: 1st, Hillcrest Farm; 2d, Hillcrest Farm. Cabbage—4 heads: 1st, Hillcrest Farm. Lettuce—Cabbage, 4 heads: 1st, Oliver Ames; 2d, Oliver Ames. Cos or Romaine, 4 heads: 1st, Hillcrest Farm. Peas—1 variety, 50 pods: 1st, Oliver Ames; 2d, Hillcrest Farm. Tomatoes—12 specimens: 1st, Oliver Ames; 2d, Oliver Ames.

Gratuities—Faulkner Farm, collection of Tomatoes; Oliver Ames, plate of Onions.

CINCINATI.

The Market.

Business is on the quiet side and has been there for the past week or so. Supplies are very heavy but the demand does not begin to take them up. The demand from out of town is not as large as it was but still is holding up fairly well under the circumstances.

Roses are plentiful. The same is true of Carnations. Gladioli are in a fair supply and generally prove good property. Outdoor stock is in a heavy supply and includes Coreopsis, Cornflower, Feverfew, Candituft and Sweet William. It is serving only to increase the oversupply in the market. Other offerings are a few Sweet Peas, Snapdragon and Lily of the Valley.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

What efforts are the florists making to keep up, through their local newspapers, a connection with the campaign advertising in the magazines? This "linking up" by individual florists is of great advantage to them, and, as well, helps along the campaign. As has often been pointed out, the very wide publication in the magazines of our slogan, "Say it with Flowers," with hints as to daily uses of flowers, necessarily conveys our message to prospective customers in the community of every florist, and these same people are more than likely to connect a reproduction of the advertisement by a local florist in a local paper with the magazine advertising, which, undoubtedly, would result to the benefit of the local florist, —in fact, many who have followed this course assure us that it does.

In view of the splendid results following the publication of the series of small advertisements published in thirty-three national magazines during January and February, and in order to keep our slogan before the public during July and August, ordinarily dull months for the florist—which really need not be the case, for there are nearly as many uses for flowers in those months as in any other—our Publicity Committees have decided to run a similar series during these summer months. There will be six advertisements in the series, and by using one of the slogan line electrotypes provided by our Promotion Bureau, a local florist can reproduce the wording of any or all of the advertisements without further expense, and include his own name and business address, with any other matter desired.

The following subscriptions have been received and are in addition to those previously announced, annually for four years, unless otherwise stated:

Klimmer's Greenhouses, Forest Park.	
111	\$10.00
J. P. Wilcox & Sons, Council Bluffs.	
1a	200.00
Alex. Vlachos, New York City.	15.00
Tipton & Hurst, Little Rock, Ark.	
(1 yr.)	10.00
Misses Cahaniss, Jackson, Miss.	
(1 yr.)	5.00
Harold J. Lewis, Plainfield, Conn.	5.00

Knoll Floral Co., Tampa, Fla.....	5.00
Indianola Florist, Columbus, O.....	10.00
Through L. J. Reuter	
Peter Fisher, Ellis, Mass.....	25.00
Macnair The Florist, Providence, R. I.	5.00
Through Guy W. French	
Geo. Reinberg, Chicago, Ill.....	25.00
Stuppy Floral Co., St. Joseph, Mo.	
(addl.)	100.00
Henry M. Rurt, Jackson, Mich.....	25.00
Geo. Harrer, Morton Grove, Ill.....	10.00
Jos. J. Brooks, Morton Grove, Ill.....	10.00
Geo. P. Hoedler, Des Plaines, Ill.....	5.00
Henry D. Neve, Des Plaines, Ill.....	5.00
Fletcher C. James, Des Plaines, Ill...	5.00
L. Linnemann, Des Plaines, Ill.....	10.00
Henry Standke, Des Plaines, Ill.....	5.00
Grant Wilfin, Des Plaines, Ill.....	10.00
X. F. Wojtkiewicz, Des Plaines, Ill...	10.00
Des Plaines Floral Co., Des Plaines,	
Ill.	25.00
Warren Garland, Des Plaines, Ill....	50.00
Sol. Garland, Des Plaines, Ill.....	5.00
Frank Garland, Des Plaines, Ill.....	5.00
A. Henderson & Co., Chicago, Ill....	25.00
James Psenick, Grosse Point, Ill.	
(addl.)	25.00
Weiss & Meyer Co., Maywood, Ill.	
(addl.)	25.00
Edw. H. Blameuser, Niles Centre, Ill.	10.00
A. H. Budlong, Chicago, Ill.....	100.00
Joseph Schoos, Evanston, Ill.....	5.00
W. Stokes, Chicago, Ill.....	12.00
John Hirn, Lake Zurich, Ill.....	10.00
Kirchoff's Conservatory, Chicago, Ill.	10.00
Geo. Witthold Co., Edgebrook, Ill....	50.00
Goerger Bros., Arlington Heights, Ill.	25.00
Chas. Paulsen, Arlington Heights, Ill.	10.00
Grove Floral Co., Arlington Heights,	
Ill.	20.00
Sam Pearce, Chicago, Ill.....	25.00
Frank Beu, Chicago, Ill.....	10.00
Z. Mojtkiewicz, Niles, Ill.....	10.00
Walter A. Amling, Maywood, Ill.....	10.00
W. H. Amling Estate, Maywood, Ill...	10.00
Hugo Luidtke, Maywood, Ill.....	5.00
Windler Wholesale Floral Co., St.	
Louis, Mo. (1 yr.).....	100.00
Through M. A. Vinson	
Windsor Flower Shop, Windsor, Ont	10.00
Gust. H. Taepke Co., Detroit, Mich.	
(addl.)	50.00
T. F. Browne, Greenfield, Mich.....	50.00
Sidney Tinkler, Mt. Clemens, Mich...	10.00
Fred, Breitmeyer, Mt. Clemens, Mich.	25.00
	\$1,237.00
Previously reported	37,355.50
Total	\$38,592.50

JOHN YOUNG, Secy.

1170 Broadway, New York.

BOSTON.

The flower market shows a decided improvement, which means that both growers and dealers are in better spirits. Peonies from native sources have been good the past week and have sold well. Easter lilies are in demand but scarce. Only a few callas are left. White peas and what might be called peas of the wedding pink shade have been selling well. Some spirea is coming and looks well, but the supply is short.

BOSTON HORTICULTURAL CLUB.

The members of the Boston Horticultural Club had a field day at Farquhar's Nurseries at West Barnstable last week. The trip was made over the road by automobile and was participated in by 22 gentlemen, including Mr. F. R. Pierson of Tarrytown. A lunch was enjoyed at Sagamore on the way to the cape. When the nurseries were reached, several hours were spent in going over the grounds, which were found to be very extensive and filled with growing plants in splendid condition. Among the chief items of inter-

est were the rhododendron fields, in which tens of thousands of plants were growing. These rhododendrons are given no winter protection but thrive amazingly. Many of them have been raised from seed. The azalea fields also excited much interest. The fine growth of this class of plants on the cape was remarked upon by all present. Much pleasure was found in inspecting the conifers, in which the firm of Farquhar specializes. Acres of them were seen, including fine new Chinese firs and spruces, and the Japanese taxus. Particular attention was given the extensive lily fields. It is an interesting fact that *Lilium auratum* grows better in the Farquhar nurseries on the Cape than in Japan itself. The fields given over to the Regal lily looked very fine. After leaving the nurseries a shore dinner was enjoyed, and the party reached Boston at a late hour in the evening.

NASSAU COUNTY ROSE SHOW.

At the Annual Rose Show of the Nassau County Horticultural Society there was an excellent display of flowers, fruit and vegetables, which resulted in keen competition in all the thirty classes. Seven splendidly arranged tables were in competition, Robert Jones, gardener to Percy Chubb, was awarded 1st; Angus B. McGregor, gardener to J. P. Morgan, 2nd; Wm. Milstead, gardener to A. C. Bedford, 3rd; Thos. Henderson gardener to F. S. Smithers, 4th.

The judges were Messrs. Alex McKenzie, William G. Carter and Thos. J. Meech.

Ernest Westlake tendered his resignation as Secretary, of this society. Mr. Westlake has been Secretary for over six years and during that time has proven himself a faithful workman and member of the craft. It was with exceeding regret that his resignation was accepted.

Our next meeting will be known as "Sweet Pea Night" and will be held on Wednesday, July 9th at 7 o'clock. Competition, 25 sprays of Sweet Peas, white, 25 pink and 25 any other color.

HARRY GOODBAND, Corr. Sec'y

PATENTS GRANTED.

Copies of any one of these patents can be obtained by sending fifteen cents in stamps to Siggers & Siggers, Patent Attorneys, Box No. 9, National Union Building, Washington, D. C., and mentioning HORTICULTURE.

1,305,367. Plow. Chas. S. Jackson, Sabinal, Texas.

1,305,434. Plant-Box. Bronson Barlow, Chicago, Ill.

1,305,502. Cultivator. Henry C. Tate, Memphis, Tenn.

1,305,653. Land-Roller. Geo. E. Karl, assignor to the Dunham Co., Berea, Ohio, a Corporation of Ohio.

1,305,674. Walking-Cultivator. Gailard Smith, Glen Ridge, N. J., assignor to World Harvester Corporation, New York, N. Y., a Corporation of Delaware.

1,305,850. Combined Seeding and Cultivating Attachment for Plows. William R. White and Arthur B. Acrea, Fleet, Alberta, Can.

1,306,152. Planting-Machine Marker. Alvaro S. Krotz, Janesville, Wis., assignor to Janesville Machine Company, Janesville, Wis., a Corporation of Wisconsin.

1,306,153. Planter Valve Mechanism. Alvaro S. Krotz, Janesville, Wis., assignor to Janesville Machine Company, Janesville, Wis., a Corporation of Wisconsin.

1,306,204. Bean Harvester. Harry C. Tolbert, Hoyt, Colo.

PLANNING FOR THE FLORISTS' FIELD DAY.

Elijah S. Gorney, recently elected secretary of the Florists' Association of Boston, sees visions of a wonderful time at Wardhurst, Lynnfield, July 12, when the florists of Boston are to take off their hats and coats and be boys again. The odds are easy at 2 to 1 that Henry Robinson will win the fat man's race, hands down, and "Billy" Stickel is picked as winner of the potato race if he can forget his dignity long enough to get right into the running.

Peter Fisher, originator of the celebrated Lawson pink, may be counted upon as one of the "bonnie laddies" in the sack race, and talk is, the winner of this event is to have his sack filled with potatoes grown by the loser, with Fred Palmer of Brookline, counted upon as being the contestant to "do the filling."—*Boston Traveler*.

OBITUARY.

John Franzini.

John Franzini, for about fifteen years the leading figure in the flower store of Ribram & Sons, Trenton, N. J., passed away Sunday night, June 22nd, from cancer of the stomach. He was 38 years of age and married. Recently he had been proposed as a member of the Philadelphia Florists Club but his election had not yet come up. His widow survives and the trade extends to her their deepest sympathy.

ARE YOU IN IT?

"Say it with Flowers"

As evidence of the influence which the "Say it with Flowers" campaign is having upon the thoughts and sentiment of the people, have you noticed the numerous magazine covers with their displays of flowers? And in other lines of advertising, have you noticed that flowers are being worked into the drawings? No room is shown, where the artist desires to create an impression of correct taste, that cut flowers or plants are not depicted.

Yes, and because one success is sure to attract attention and followers, there is an attempt every once in a while to cash in on the "Say it with Flowers" popularity, and we have candy people trying to make the public "Say it with Candy," greeting card people want them to "Say it with cards" and jewelry people attempt to use it for jewelry, going so far as to copy our calendar idea for birth stones.

All of this attracts more attention to the advertising and centres the public attention on flowers.

Are you doing your share in defraying the cost of this advertising? You are getting a direct benefit from it. Do you think it fair to allow the full burden of cost to fall upon a few of the florists? If you have done so up to now, come across. Don't put it off any longer. We know that it is merely a case of forgetfulness in most cases, or thoughtlessness.

Do Something About It

SUBSCRIBERS' LIST

The Following is a Complete List of Subscribers to the National
Publicity Campaign Fund of the Society of American
Florists and Ornamental Horticulturists

ALABAMA.

Brown, Mrs. W. D., Bessemer....	\$5.00
Goodbrad Floral Co., Mobile....	5.00
Minge Floral Co., Mobile.....	30.00
Nielsen, Knud, Evergreen.....	10.00
Scott, John, Huntsville.....	5.00

\$55.00

APPROPRIATIONS.

Florists' Telegraph Delivery Association	\$1,500.00
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ARKANSAS.

Davis Floral Co., Pine Bluff...	\$10.00
Rye, George, Fort Smith.....	5.00
Tipton & Hurst, Little Rock....	10.00

\$25.00

CALIFORNIA.

Armecost & Co., Walter, Los Angeles	\$25.00
Art Floral Co., San Francisco	25.00
Avansino, H. A., San Francisco	10.00
Broadway Florists, Los Angeles	20.00
Clarke Bros., Oakland.....	5.00
Darbee, Mrs. R. E., San Francisco	50.00
Dennucci, Richard, San Francisco	5.00
Dieterich, J. D., Los Angeles....	10.00
Enomoto & Co., San Francisco....	10.00
Eppstein, Julius, San Francisco	10.00
Eldred Flower Shop, Pasadena....	10.00
Ferrari Bros., San Francisco....	25.00
Francis Floral Co., San Francisco	25.00
Floral City Nursery, San Mateo	20.00
Grallert, Paul W. A., Oakland....	10.00
Goldenson, Albert, Los Angeles	5.00
Hills, F. R., Los Angeles.....	10.00
Howard & Smith, Los Angeles	50.00
James, E., Oakland.....	25.00
Joseph, B. M., San Francisco....	35.00
Jaeger & Son, F. C., San Francisco	10.00
Kooyman, C., San Francisco....	25.00
Lalanne, Lawrence M., San Francisco	10.00
Levin, Herman, San Francisco	10.00
Lombardi, E., Los Angeles....	5.00
Lichtenberg, F., Los Angeles....	25.00
Molinori, Domenico, San Francisco	5.00
McDonald, Wm., Oakland.....	10.00
Mac Rorie & McLaren, San Francisco	50.00
Olsen, John, San Francisco....	10.00
Orchid, The, Pasadena.....	25.00
Pelleano, Rossi & Co., San Francisco	50.00
Perrine, W. G., Berkeley.....	1.00
Perrine, W. G., Berkeley, Add'l	2.50
Podesta & Baldocchi, San Francisco	50.00
Plath, H., San Francisco.....	25.00
Polder Bros., Montebello.....	10.00
Purdie & Co., D. S., Los Angeles	25.00
Rainford, A. M., San Diego.....	5.00
Dedondo Floral Co., Los Angeles	50.00
Sculberger & Co., J., Oakland....	10.00
Sanborn Co., H. M., Oakland....	25.00
Superior Nursery Co., Los Angeles	10.00
Thorsted Floral Co., Oakland....	10.00
Wright's Flower Shop, Los Angeles	25.00

\$863.50

CANADA

Campbell Floral Co., Calgary, Alta.	\$5.00
Connon Ltd., John, Hamilton, Ont.	10.00
Dicks, George F., London, Ont.	10.00
Dillemath, H. G., Toronto.....	25.00
Dominion Floral Co., Montreal	10.00
Dunlop, J. H., Toronto.....	50.00

Gammage & Sons, J., London, Ont.	25.00
King, A. R., Winnipeg, Manitoba	10.00
Poderson, Ltd., K., St. John, N. B.	15.00
Rosery, The, Winnipeg, Man.	10.00
West Floral Co., London.....	25.00
Windsor Flower Shop, Windsor, Ont.	10.00

\$205.00

COLORADO.

Alpha Floral Co., Denver.....	10.00
Belcher, H. D., Denver.....	5.00
Benson, C. A., Denver.....	10.00
Benson, N. A., Denver.....	25.00
Black, W. D., Denver.....	5.00
Boldt, Ben, Denver.....	10.00
Boldt-Lundy, Denver.....	10.00
Boyle & Darnaud, San Diego....	5.00
Brenkert, Geo, Denver.....	5.00
Clausen, Herbert A., Denver....	10.00
Cooper, George, J., Denver.....	10.00
Denver Wholesale Florists Co., Denver	25.00
Elitch Gardens Co., Denver.....	25.00
Espelin-Warren Floral Co Fort Collins	10.00
Fleischaur, G., Pueblo.....	10.00
Glauber, Emil, Denver.....	5.00
Graul Bros., Wheat Ridge.....	5.00
Grimes' Son, D. S., Denver.....	6.00
Hall, Fred, Denver.....	10.00
Johnson, B. C., Sterling.....	10.00
Kintzele, L. A., Denver.....	5.00
Knudsen, S., Boulder.....	10.00
Legenfelder, C., Denver.....	10.00
Maler, C. E., Denver.....	10.00
Mauff Floral Co., Denver.....	10.00
Morgan Floral Co., Fort Morgan	10.00
New York Floral Store, Denver	10.00
Park Floral Co., Denver.....	50.00
Pikes Peak Floral Co., Colorado Springs	60.00
Robbins & Son, Loveland.....	5.00
Schumann, Fred C., Wheat Ridge	5.00
Speth, Wm., Denver.....	10.00
Trimmer & Son, T. H., Denver	5.00
Valley Floral Co., La Junta....	5.00

\$416.00

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Ahlquist, John L., Plainville....	5.00
Baker, J. Fred, Moosup.....	2.00
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Champion & Co., John N., New Haven	30.00
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Curtiss, C. F., Plainville.....	5.00
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Drake, Eugene S., Hartford....	10.00
Eochrenbush, Frank E., Bridgeport	5.00
Geduldig Greenhouses, Norwich	10.00
Hallgren Bros., Wilson.....	5.00
Hawkins, Robt H., Bridgeport	20.00
Haworth's Greenhouses, Farmington	5.00
Helthal, G. F., Bridgeport.....	10.00
Horan & Son, Jas., Bridgeport	25.00
Hubbard, Paul M., Bristol.....	15.00
Kolb, Fred C., Bridgeport.....	5.00
McClunie, Geo. G., Hartford....	15.00
Marchant & Sons, Robt., Hartford	5.00
Moore Co., S. H., New Haven....	25.00
Munro, Chas., New Haven.....	10.00
Neubrand, H. C., Middletown....	5.00
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Pohl, Edmund, Hartford.....	7.50
Peterson, Carl, Hartford.....	5.00

Plerson, A. N., Inc., Cromwell..	500.00
Pflomm, George, Bridgeport....	10.00
Pflomm, Chas. W., Bridgeport....	10.00
Pinchbeck, W., Ridgefield.....	10.00
Reck, Julius, Bridgeport.....	5.00
Reck, John & Son, Bridgeport	25.00
Rowden & Mitchell, Wallingford	5.00
Ryan, Geo. T., Waterbury.....	10.00
Spear & McManus, Hartford....	50.00
Strom, A. C., New Britain.....	10.00
Taylor, E. J., Greens Farms....	10.00
Terry, W. B., Bristol.....	5.00
Thomson Co., W. W., West Hartford	15.00
Volz Floral Co., New Britain....	10.00
Welch The Florist, Hartford....	50.00
Wilson, Meyer, New Haven.....	5.00

\$1,164.50

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Blackstone, Z. D., Washington	\$25.00
Ernest, William H., Washington	5.00
Gude Bros. Co., Washington....	200.00
Jenkins & Sons, C. L., Anacosta	25.00
Rodman, E. P., Washington....	25.00

\$280.00

DELAWARE.

Von Reider, J. J., Dover.....	\$5.00
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Gibson, Wm. R., Jacksonville....	5.00
Mills The Florist, Inc., Jacksonville	10.00
Ohmer, C. J., West Palm Beach	5.00
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\$30.00

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Oelschig & Sons, A. C., Savannah	10.00
vannah	10.00
Stubs Nursery Co., Augusta....	10.00
Wachendorf Bros., Atlanta....	10.00
Wildwood Greenhouses, Columbus	5.00
Wolf, John, Savannah.....	10.00

\$85.00

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Donart, Ad., Cour d'Alene.....	\$5.00
Scott Bros., Moscow.....	5.00

\$10.00

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Blameuser, Edw. C., Niles Center	10.00
Boblander, R. E., Melrose Park..	10.00

Bobson Florist, Chicago.....	100.00	Samuelson, Chas. A., Chicago.....	25.00	Wiegand Sons Co., Indianapolis, add'l.....	25.00
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Des Plaines Floral Co., Des Plaines.....	25.00	Wendland & Keimel Co., Elmhurst.....	50.00	Kemble, I. O., Marshalltown.....	100.00
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Erne & Co., Chicago.....	25.00	Wojtkiewicz, X. F., Des Plaines ..	10.00	Nordwall Florist, Fort Dodge.....	5.00
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Garland, Warren, Des Plaines.....	50.00	Barick, M. A., Seymour.....	\$5.00		\$546.00
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Rapids..... 10.00
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troit..... 25.00
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ton..... 10.00
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Paul..... 15.00
Minneapolis Floral Co., Min-
neapolis..... 10.00
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ester..... 10.00
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Bourdet, Jules L., St. Louis.... 50.00
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Mohr, Adolph D., Kansas City...	10.00	Baumann, Henry W., Hoboken...	10.00	Felton, Chas., Buffalo.....	25.00
Mullanphy Florists, St. Louis...	25.00	Berke, Geo. H., Atlantic City...	10.00	Finger, Frank, Bayside, L. I...	5.00
Murray, Miss Jeanie E., Kansas City...	5.00	Bobbinck & Atkins, Rutherford...	250.00	Florists' Exchange, New York...	50.00
Murray, Samuel, Kansas City...	100.00	Clark, Frank J., Trenton.....	25.00	Franks, Herman, New York...	25.00
Murray, Samuel, Kansas City, add'l.....	100.00	Coddington, L. B., Murray Hill	50.00	Frey, E. R., Rochester.....	5.00
Newell, Arthur, Kansas City.....	25.00	Connolly & Plunkett, Newark...	5.00	Fuld, Maurice, New York.....	10.00
Ostertag Bros., St. Louis.....	5.00	Edwards Floral Co., Atlantic City.....	50.00	Grover, Wm. H., Buffalo.....	10.00
Park Floral Co., St. Joseph.....	15.00	Estler, J. G., Saddle River.....	25.00	Grupo, John W. H., Schenectady.....	5.00
Peterson Floral Co., Kansas City	10.00	Essex County Florists' Club	50.00	Guenther, C. T., Hamburg.....	20.00
Pleper Floral Co., St. Louis.....	5.00	Irvington.....	50.00	Gloekner, Wm. C., Albany.....	25.00
Pilcher, W. J., Kirkwood.....	50.00	Flessner, J. H., No. Bergen.....	25.00	Hammond, Benjamin, Beacon...	50.00
Rock Flower Co., W. L., Kansas City.....	200.00	Frenking, E. H., Trenton.....	10.00	Henshaw Floral Co., New York	50.00
Rosery, The, St. Louis.....	5.00	Freytag, R. G., Montclair.....	5.00	Herrlich, Mrs. L., Buffalo.....	5.00
Rowe, W. A., Kirkwood.....	50.00	Grulich & Sons, J., Hoboken...	5.00	Hoffman, Peter, Buffalo.....	10.00
Ryan, Phil., Brookfield.....	1.00	Herrick, Alonzo D., Hacketts town.....	10.00	Hanson, Sam, Troy.....	5.00
Sander, Otto, St. Louis.....	10.00	Hitchings & Co., Elizabeth.....	100.00	Hart, George B., Rochester.....	25.00
Schray & Sons, Wm., St. Louis...	25.00	Hornecker, Henry, East Orange	25.00	Henker, Bruno, White Plains...	5.00
Singer, Albert, St. Louis.....	20.00	Jacobi, Edw., Irvington.....	10.00	Henkes Bros., Watervliet.....	10.00
Sommerville Floral Co., Springfield.....	10.00	Lange, John, Englewood.....	5.00	Irwin, Roman J., New York...	25.00
State Fair Floral Co., Sedalia...	5.00	Madsen & Christensen, Wood Ridge.....	10.00	Irwin, Roman J., New York, add'l.....	50.00
St. Louis Seed Co., St. Louis...	25.00	Manda, Joseph, West Orange...	100.00	Jackson & Perkins Co., Newark	100.00
St. Louis Wholesale Cut Flower Co., St. Louis.....	100.00	Massmann, F. W., Montclair...	15.00	Jahn, Hugo H., Brooklyn.....	10.00
Stertzling, W. W., St. Louis.....	5.00	Mitchell, John R., Madison...	5.00	Joyce, John, Congers.....	5.00
Stuppy Floral Co., St. Joseph...	200.00	Moreau, Frank J., Freehold.....	5.00	Jurgens, Geo. J., Northport...	5.00
Stuppy Floral Co., St. Joseph, add'l.....	100.00	Orr, R. J., Vineland.....	5.00	Kahn, Sigmund, Bulls Head, S. I.....	10.00
Stevens, John, Kansas City...	25.00	Paseler, Mrs. B. W., Hoboken...	1.00	Kasting Co., Wm. F., Buffalo...	100.00
Sunny Slope Seed Farm, Independence.....	5.00	Paseler, Mrs. B. W., Hoboken, add'l.....	2.00	Keller & Sons, J. B., Rochester	25.00
Thomas, Charles E., Kansas City	5.00	Ribsam, Martin C., Trenton...	25.00	Keller, Geo. J., Rochester.....	5.00
Thost, G. M., De Soto.....	10.00	Rochers Co., Julius, Rutherford	100.00	Kessler, William, New York...	15.00
Weber, Fred C., St. Louis.....	50.00	Rummler, W., Rutherford.....	5.00	Kessler, Philip F., New York...	100.00
Weber, Fred H., St. Louis.....	25.00	Seery, Edw., Paterson.....	50.00	Klausner, J. P., New York.....	5.00
Wild Bros. Nursery Co., Sarcoyle.....	5.00	Schmidt, Henry, No. Bergen.....	10.00	Klein, Leo, New York.....	10.00
Winder Flowers, St. Louis.....	20.00	Schoelzel, Herman, New Durham	25.00	Koller, Francis, Astoria, L. I...	5.00
Winder Wholesale Floral Co., St. Louis.....	100.00	Simpson, Robert, Clifton.....	50.00	Kretzmar Bros., W. Nyack...	2.00
Winkler, Robt., Wellston.....	10.00	Smith & Sons, Geo., East Orange	10.00	Kurthe & Burke, Albany.....	10.00
Whitek, Joseph, St. Louis.....	25.00	Stein Bros., Warren Point.....	10.00	Koehne, Robert, New York...	10.00
Wright, W. J., St. Louis.....	5.00	Stokes, A. T., Moorestown.....	10.00	Kuebler, W. H., Brooklyn.....	15.00
	\$1,873.50	Taylor, Arthur, Boonton.....	10.00	Kervan & Co., New York.....	25.00
		Thomas, Walter R., Atlantic City.....	5.00	Lawrence, Jno., Ogdensburg...	10.00
		Totty, Chas. H., Madison.....	200.00	Lee, Charles, Barnard.....	5.00
		Tricker, William, Arlington...	10.00	Lewis Flower Shop, Lockport...	5.00
		Van Riper, Selah, East Paterson	10.00	Levy, Joseph J., New York...	10.00
		Warner, U. C., Sewell.....	5.00	Lion & Co., New York.....	50.00
				Lisburg, George, E. Hampton...	3.00
				Lord & Burnham Co., New York	200.00
				McCord Co., Wm. F., Tarrytown	25.00
				Mathews, W. W., Great Neck...	5.00
				Melninger, A. J., Gloversville...	1.00
				Menand, Louis, Albany.....	5.00
				Menand, H. Louis, Troy.....	5.00
				Metcalf, Christian, Brooklyn...	5.00
				Meyer, Corp. of Chas. F., New York.....	25.00
				Miesem, John, Elmhurst.....	5.00
				Miller, A. L., Jamaica.....	100.00
				Mulholland, Mathew B., Troy...	5.00
				Mutch, H. C., Troy.....	5.00
				N. Y. Cut Flower Co., New York	5.00
				N. Y. Cut Flower Co., New York	250.00
				Nause, William, Staten Island...	20.00
				Neubeck, L. H., Buffalo.....	5.00
				Newlands, Miss Grace, Buffalo...	10.00
				Palmer & Son, W. J., Buffalo...	200.00
				Papedem & Co., J. G., New York.....	5.00
				Pierce & Gray, Utica.....	5.00
				Pierson, F. R., Tarrytown...	250.00
				Phillips, J. V., Brooklyn...	50.00
				Popp, P. W., Mamaroneck.....	10.00
				Pye, Robt., Chester, Nyack.....	10.00
				Powell, Frank A., Ironduquoit...	5.00
				Quinlan Co., P. E., Syracuse...	10.00
				Ralph Greenhouses, John, Saratoga Springs.....	5.00
				Reenie, Miss L. G., Malone...	5.00
				Reed & Keller, New York.....	50.00
				Relcherts, A. J., Buffalo.....	20.00
				Reimet's Sons, John, Woodhaven	25.00
				Riedel & Meyer, New York.....	50.00
				Rodman & Sons, Brooklyn...	10.00
				Rosery Flower Shop, Albany...	25.00
				Roskelly, Ralph J., Ithaca.....	5.00
				Russell, Geo. L., Albany.....	5.00
				Ryder, W. H. & J. C., Wantagh	5.00
				Russin & Handing, New York...	25.00
				Salter Bros., Rochester.....	5.00
				Saltford's Flower Shop, Poughkeepsie.....	25.00
				Schlegel, F. A., Rochester.....	10.00
				Schlegel, George, Brooklyn...	50.00
				Schloss Bros., Inc., New York...	100.00
				Schneider & Noe, Congers.....	5.00
				Schoenhut, Chas., Buffalo.....	15.00
				Schultheis, Anton, College Point	100.00
				Schwacke Co., Chas., New York	25.00
				Schling, Max, Employees, New York.....	25.00
				Schling, Inc., Max., New York...	300.00
				Scott Bros., Elmford.....	10.00
				Scott Co., Wm., Buffalo.....	25.00
				Scott, David, Corfu.....	25.00

MONTANA.

Brackney, R. H., Three Forks...	5.00
Butte Floral Co., Butte.....	25.00
Columbia Floral Co., Butte.....	15.00
Electric City Conservatory, Great Falls.....	5.00
Electric City Conservatory, Great Falls, add'l.....	5.00
Feiden Jr., John, Great Falls...	5.00
Feiden Jr., John, Great Falls, add'l.....	5.00
Gregory, M. E., Miles City.....	3.00
Gregory, Miles City.....	1.00
Hanson Floral Co., Butte.....	5.00
Kranz, Chas. M., Great Falls...	10.00
Langohr, M., Bozeman.....	10.00
Miles City Greenhouses, Miles City.....	1.00
R. & S. Flower Store, Missoula...	5.00
State Nursery Seed Co., Helena	25.00
Ullman, W. F., Glendive.....	1.00
	\$126.00

NEBRASKA.

Bath, John H., Omaha.....	\$10.00
Davidson Floral Co., Holdrege...	5.00
Dole Floral Co., Beatrice.....	30.00
Donaghue, Jr., A., Omaha.....	25.00
Eiche Floral Co., Lincoln.....	25.00
Enslow Floral Co., Lincoln.....	10.00
Frey & Frey, Lincoln.....	75.00
Frey, E. H., Lincoln.....	100.00
Green, C. H., Tremont.....	10.00
Hargadure, C. C., Florence.....	10.00
Hess & Swoboda, Omaha.....	200.00
Hruben, Albert, Omaha.....	10.00
Williams, Edw., Grand Is.....	10.00
	\$520.00

NEW HAMPSHIRE.

Buxton, Geo. C., Nashua.....	\$10.00
Gill, Thomas, Berlin.....	10.00
Graham, W. H., Manchester...	3.00
Hannaford, R. E., Portsmouth...	2.00
McLeod, Donald, Concord.....	10.00
	\$35.00

NEW JERSEY.

Aphine Mfg. Co., Madison.....	\$100.00
Asmus, E. R., Closter.....	50.00
Atkins, C. H., Inc., Rutherford...	10.00

NEW YORK.

Abrams, Chas., Brooklyn.....	\$15.00
Abrams, J. B., Blue Point.....	25.00
Albany Cut Flower Exchange, Albany.....	10.00
Albany Florists' Club, Albany...	25.00
Anderson, S. A., Buffalo.....	100.00
Arday Florist, Albany.....	10.00
Baker & Son, C. P., Utica.....	25.00
Baldwin & Co., Mamaroneck...	25.00
Bard, R. H. C., Syracuse.....	5.00
Barrett, James G., Troy.....	10.00
Basler, G., Buffalo.....	5.00
Brookings, Jerry & Son, Orchard Park.....	10.00
Bennett, John, Blue Point, L. I.	2.00
Berberick, John, Albany.....	10.00
Bertelson, Sofus, Babylon, L. I.	5.00
Bonnett & Blake, Brooklyn...	15.00
Brant Bros., Inc., Utica.....	25.00
Brown, Chas. H., New York.....	50.00
Bayerle, Geo. J., New York.....	2.00
Bultmann, Werner F., Syracuse	10.00
Bunyard, A. T., New York.....	100.00
Burns, Jr., A. S., Spring Valley	100.00
Byam, E. J., Rome.....	5.00
Canning, John, Ardsley.....	10.00
Carpenter, Ansel D., Cohoes...	25.00
Chevalley, Julius, Blue Point...	5.00
Childs, John Lewis, Flowerfield	100.00
Clark's Sons, David, New York...	25.00
Cohen & Hiller, New York.....	50.00
Colonial Flower Shop, Buffalo...	10.00
Conway Bros., Troy.....	5.00
Cookingham, R. T., Ellenville...	5.00
Crandall, H. L., Glens Falls...	5.00
Crook & Co., Geo., Rochester...	5.00
Cut Flower Exchange, New York.....	100.00
Danker, F. A., Albany.....	25.00
Danti & Gozzi, Mt. Vernon...	5.00
Dard's, Inc., New York.....	100.00
Day Co., W. E., Syracuse.....	10.00
Detlef, Kate M., Buffalo.....	5.00
Dorval's Sons, Victor S., Woodside, L. I.....	10.00
Dobbs & Sons, Auburn.....	5.00
Dummett, Arthur, Mt. Vernon...	10.00
Dunbar, John, Rochester.....	2.00
Dupuy, Louis, Whitestone.....	50.00
Eberhardt, H. E., Schenectady...	5.00
Ehrmann, W. C., Corfu.....	5.00
Eger, Julius W., Schenectady...	5.00

\$1,516.00

SUBSCRIBERS' LIST

Sick, Edward, Canandaigua...	15.00
Siebrecht, W. H., Chappaqua...	25.00
Sievers, Wm. H., Buffalo...	10.00
Shower, Wm. H., Schenectady...	5.00
Snyder, J. H., Violet Grower,	
Rhinebeck	5.00
Spavins, Herbert, Mt. Kisco...	5.00
Spwak, Wm., Elmhurst...	10.00
South Shore Floral Co., Speonk,	
L. I.	10.00
Stevens, Abram, Spring Valley	10.00
Stone, Wm. H., Blue Point...	5.00
Stroh & Sons, L. C., Batavia...	30.00
Stumpp, G. E. M., New York...	300.00
Stroh, Edward L., Buffalo...	10.00
Teute, Hugo, Rochester...	5.00
Thienel, Chas., Bayside, L. I.	2.00
Thomann, Jacob, Rochester...	10.00
Traudt, Joseph, Canajoharie...	25.00
Travison, John C., Albany...	5.00
Trepel, Jack, Brooklyn...	5.00
Tuthill, L. W. C., New York...	25.00
Utica Floral Co., Utica...	25.00
Utter, Fred K., Rye...	5.00
Burgevin, Valentine, Inc., King-	
ston	25.00
Van Scooter & Son, Bath...	5.00
Vlachos, Alex., New York...	15.00
Warendorff, Alex., New York...	25.00
Wallager Bros., Johnstown...	5.00
Weber, Chas., Lynbrook...	15.00
Werthelmer Bros., New York...	100.00
Wettlin Floral Co., Hornell...	10.00
Wilson, H. E., Rochester...	10.00
Wise, Fred W., East Aurora...	5.00
Workman, W. H., Oswego...	10.00
Young, Josiah L., Watervliet...	5.00

\$4,915.00

NORTH CAROLINA

Barringer's Greenhouses, States-	
ville	\$3.00
Brown, E. E., Asheville...	10.00
Rush, Ernest J., Wilmington...	5.00
Ford, Frank H., High Point...	5.00
Fowler, Mrs. Louisa P., Wil-	
mington	3.00
O'Quinn Co., J. L., Raleigh...	50.00
Scholtze, The Florist, Charlotte	25.00
Starr, George J., Wilson...	10.00
Van Lindley Co., Greensboro...	100.00

\$211.00

NORTH DAKOTA

Hoskins Floral Co., Bismarck...	\$5.00
Shotwell Floral Co., Fargo...	25.00
Smedley Floral Co., Fargo...	25.00
Walker's Minot Greenhouses,	
Minot	15.00

\$70.00

OHIO.

Abbey Ave. Greenhouses, Day-	
ton	\$15.00
Anderson, M., Dayton...	10.00
Barton, Chas. E., Norwalk...	5.00
Backmeier, Fred M., Cincinnati...	5.00
Baer, Julius, Cincinnati...	10.00
Baer, Julius, Cincinnati, add'l.	75.00
Barrow, John, Toledo...	10.00
Blake, B. C., Springfield...	3.00
Blake, F. S., Marion...	5.00
Bower, Chas. A., Dayton...	10.00
Carey & Kuehle, Urbana...	10.00
Cincinnati Cut Flower Co., Cin-	
cinnati	25.00
Cleveland Cut Flower Co.,	
Cleveland	100.00
Cook, H. A., Oberlin...	2.00
Critchell, Chas. E., Cincinnati...	200.00
Dayton Floral Co., Dayton...	50.00
Duerr, Chas. A., Newark...	5.00
Edwards, J. W., Dayton...	25.00
Farrell & Co., Cincinnati...	20.00
Forder, Alfred, Cincinnati...	5.00
Foster, Edw. A., Cincinnati...	5.00
Franklin Park Floral Co.,	
Columbus	25.00
Franklin Park Floral Co.,	
Columbus, 2d sub.	20.00
Friedley Co., East Cleveland...	10.00
Frisch & Son, G. W., Dayton...	10.00
Gasser Co., J. M., Cleveland...	200.00
Geltz, Fred G., Canton...	5.00
Gerlach, The Florist, Piqua...	5.00
Goldman, Jos. R., Middletown...	25.00
Graham, Chas. J., Cleveland...	50.00
Halbrooke, Paul M., Newark...	10.00
Hall, E. E., Clyde...	5.00
Hagenberger, Carl, West Mentor	25.00
Hecock, L. C., Elyria...	25.00

Heepe Co., Akron...	15.00
Heini, Harry, Toledo...	25.00
Heiss Co., Dayton...	25.00
Hellenthal, Jos. J., Columbus...	10.00
Horlacher, W. W., Dayton...	25.00
Humphrey, C. L., Zanesville...	10.00
Imley Co., Zanesville...	10.00
Jenkins, E. W., Dayton...	10.00
Johnson, Mrs. L. D., Dayton...	10.00
Jones Russell Co., Cleveland...	100.00
Kent Flower Store, Newark...	5.00
Kirschner's Flowers, Cleveland...	25.00
Knoble Bros., Cleveland...	100.00
Koelker, John A., Toledo...	5.00
Koontz, P. M., Springfield...	10.00
Krespen, Lawrence M., Cincln-	
nati	10.00
Kuhn, Sam, Cincinnati...	10.00
Ludwig, T. J., Columbus...	5.00
MacFarland's Florist, Akron...	10.00
McCullough, J. Chas., Cincinnati	25.00
McKellar, James, Columbus...	25.00
Metz & Bateman, Toledo...	20.00
Metzmaier, Emil, Columbus...	10.00
Murphy, C. Wm., Cincinnati...	20.00
Merkel & Son, C., Cleveland...	50.00
Munk Floral Co., The, Columbus	25.00
Murphy, E. Alfred, Sayler Park...	10.00
Murphy, L. F., Cincinnati...	25.00
Park Floral Co., Cleveland...	50.00
Peterson, J. A. Sons, Cincinnati	50.00
Rodgers, J. A., Dayton...	25.00
Rutenschroer, J. C., Cincinnati...	2.00
Sabransky, Jno. F., Kenton...	5.00
Scheel, T. T., Carey...	5.00
Sheppard, H. W., Cincinnati...	50.00
Schiller, J. L., Toledo...	25.00
Schneider, Frank A., Cincinnati...	10.00
Schramm Bros., Toledo...	35.00
Scott, John W., Lisbon...	5.00
Scottwood Greenhouses, Toledo...	20.00
Schumann & Sons, Edw., Cin-	
cinnati	10.00
Silvius & Silvius Co., Ashta-	
bula	10.00
Skinner Irrigation Co., The, Cin-	
cinnati	25.00
Stephens & Son, S. F., Columbus	25.00
Storrs & Harrison Co., Paines-	
ville	100.00
Steizig's Floral Store, Bellefon-	
taine	5.00
Sundermann, John, Cincinnati...	5.00
Sundermann, John, Cincinnati,	
add'l	10.00
Tong & Weeks Floral Co., Ash-	
tabula	15.00
Tromey's Flower Shop, Cincin-	
nati	60.00
Ullrich Floral Co., F. J., Tiffin...	5.00
Underwood Bros., Columbus...	15.00
Volz, Frank A., Cincinnati...	10.00
Wagner, C. M., Cleveland...	25.00
Wagner, L. E., Sandusky...	15.00
Weaver, A., Massillon...	5.00
Weeks, Robt., Cleveland...	25.00
Westman & Getz, Cleveland...	50.00
Wilson, H. R., Columbus...	25.00
Witthuhn, Fred, Cleveland...	25.00
Winterich, C., Defiance...	10.00
Witterstaetter, R., Cincinnati...	5.00
Witterstaetter, R., Cincinnati,	
add'l	20.00
Stiles Floral Co., Oklahoma City	25.00

\$2,437.00

OKLAHOMA

Boston Flower Store, Tulsa...	\$5.00
Chickasha Greenhouses, Chick-	
asha	3.00
Furrow & Co., Oklahoma City...	40.00
Henry, James A., Tulsa...	5.00
Marshall, Geo. W., Okmulgee...	5.00
Muskogee Carnation Co., Mus-	
kogee	5.00
Rice, Otto, Sapulpa...	10.00
Stiles Floral Co., Oklahoma City	25.00

\$98.00

OREGON

Clarke Bros., Portland...	\$50.00
Dungee, Wm. E., Portland...	2.50
Herbert & Fleishauer, McMinn-	
ville	5.00
Martin & Forbes, Portland...	75.00
Niklas & Son, Portland...	20.00
Niklas, H., Portland...	2.50
Peoples Flower Shop, Portland...	2.50
Robinson, Jean, Portland...	2.50
Smith, Max M., Portland...	15.00
Steele's Pansy Gardens, Port-	
land	20.00
Swiss Floral Co., Portland...	45.00

Thompson Horticultural Works,	
Portland	2.50
Tonseth Floral Co., Portland...	15.00
Van Kirk, F. A., Portland...	5.00
Weidemann Bros., Wilsonville...	5.00
Wiedemann Bros., Milwaukee...	5.00
Wilson-Crout-Gehr, Portland...	10.00
Wood, Wm. C., Portland...	2.50
Zimmermann, John, Portland...	2.50

\$277.50

PENNSYLVANIA

Andre, John R., Doylestown...	\$50.00
Aschmann Bros., Philadelphia...	25.00
Ashley, Ernest, Allentown...	15.00
Bader Co., John, N. S., Pitts-	
burgh	50.00
Baker, Wm. J., Philadelphia...	10.00
Bertram, J. Henry, Lansdowne...	30.00
Bertram, J. Henry, Lansdowne,	
add'l	25.00
Burk, Louis, Philadelphia...	10.00
Bernheimer, Eugene, Philadel-	
phia	10.00
Bensley, Chas. T., East Milton...	10.00
Betz, H. S., Philadelphia...	100.00
Brinton, M. J., Christiana...	10.00
Burki, Fred, Gibsonia...	25.00
Burton, George, Chestnut Hill...	100.00
Burton, Alfred, Philadelphia...	50.00
Butz Bros., New Castle...	25.00
Campbell, Est. H. P., Shamokin...	5.00
Carey, Frederic, Kennett Sq...	10.00
Cleirico, Joseph, Lancaster...	3.00
Clinger, W. Bruce, Milton...	5.00
Connolly, John J., Rosemont...	5.00
Connor, D. T., Philadelphia...	5.00
Craig Co., Rogt., Philadelphia...	100.00
Craig, George, Philadelphia...	10.00
Cremer, F. E., Hanover...	10.00
Crissman Greenhouse Co., Punx-	
sutawney	25.00
Crossley, W. C., Mansfield...	10.00
Darlington, C. D., Doylestown...	15.00
Denlinger, Walter R., Vintage...	5.00
Derr, Paul A., Williamsport...	2.00
Deer, H. A., Inc., Philadelphia...	100.00
Drewes, Wm. F., Braddock...	10.00
Edholz, Henry, Waynesboro...	10.00
Erdman & Son, K. M., Mt. Car-	
mel	5.00
Espey & Son, E. W., Brookville...	5.00
Evans, W. & H. J., Philadelphia...	25.00
Evenden, W. J., Williamsport...	5.00
Evenden, George W., Williams-	
port	5.00
Farenwald, A., Roslyn...	100.00
Fisher & McGrath, New Castle...	5.00
Fletcher, Eva Francis, Philadel-	
phia	5.00
Fox, Wm. H., Parker Ford...	25.00
Gaebring, E. W., Philadelphia...	15.00
Gracey, John C., Philadelphia...	10.00
Gayley, J. Wade, Strasburg,	
Lancaster County	5.00
Girvin, W. B., Leola...	10.00
Grakelow, Chas. H., Philadel-	
phia	100.00
Groshens & Morrison, Roslyn...	50.00
Guntton, C. E., Bradford...	10.00
Harris, Wm. K., Philadelphia...	50.00
Harris & Bro., Joseph, Shamokin	5.00
Harvey, Alban & Sons, Brandy-	
wine Summit	100.00
Herr, A. M., Lancaster...	25.00
Herr, Chas. B., Strasburg...	5.00
Hoffmeyer, C. K., Pittsburgh...	1.00
Hoffmeyer, C. K., Pittsburgh,	
add'l	5.00
Horn & Bro., John F., Allentown	50.00
Hostetter, E. P., Manheim...	5.00
Johnston Brokerage Co., Pitts-	
burgh	25.00
Joseph Heacock, Wyncote...	500.00
Josephs, Joseph, Philadelphia...	10.00
Hammond, Walter A., Lancaster	5.00
Habermehl's Sons, Philadelphia	25.00
Herr, Chas. B., Strasburg...	5.00
Keeney's Flower Shop, Harris-	
burgh	5.00
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JOHN YOUNG, Secretary

Society of American Florists and Ornamental Horticulturists
1170 Broadway, New York

THE GARDENERS' SECTION

JAPANESE CRONES.

The tubers of the Japanese Crones or *Stachys Sieboldi* which were shown at the March exhibition of the Massachusetts Horticultural Society by Hillcrest Farm, Weston, and attracted favorable attention there, were sent to us several years ago from France. The Crones belong to the Labiatae or Mint family, but have not the aromatic fragrance generally found in the leaves of other members of this family.

At Hillcrest the Crones were planted early in the spring, as soon as the ground was in workable condition, in furrows. The small tubers were dropped into furrows made by a hoe, three inches deep with twelve inches between the tubers. The furrows were three feet apart. For hand cultivation the rows could have been much closer.

The plants soon appeared above the ground and kept growing and spreading, forming a dense row about eighteen inches high of attractive dark green foliage till late in the autumn when a hard frost killed them.

The stems were much branched, square with opposite simple leaves. There were no blossoms. The tubers were formed in the latter part of the summer. Earlier in the season the plants sent out numerous, thick root-like threads about eight inches long which began to thicken at the end and form edible tubers. These are a little more than an inch long, white and with a twisted appearance like a corkscrew.

There may be various ways of serving them, but we found them delicious as dainty little fritters cooked in a batter and deep fat.

The Crones are very productive so that a quart or more can be gathered from a single tuber planted in the spring. Dug up late in the autumn they have to be stored in a moist, cool cellar or covered with damp sand. If the air is too dry they will wilt very quickly. If left in the ground through the winter they will grow the following season. Orders for these tubers can be taken this spring for next year's planting.

M. R. CASE,

Hillcrest Farm, Weston, Mass.

NEW ENGLAND.

Joseph A. Nolet came through as chief winner of prizes in the peony show of the New Bedford, Mass., Horticultural society.

Louis E. Smith is to erect a large greenhouse at Summerside Garderes, Lee, Mass., and has been in New York making the necessary arrangements.

ROCHESTER.

Owing to the heat the rose show had to be called off but a meeting of the Rochester Rose society was held, at which more than a 100 varieties of roses were exhibited. The exhibit showed a sufficient number of flowers to keep up the intense interest in the rose society that had manifested from the start. A discussion included the prospects of a rose show in the fall, when there will be plenty of blooms if the weather is favorable. The society has now more than 100 members and it is said the prospects are that three hundred or four hundred flower lovers will join. All the blossoms were given to the hospitals and other institutions after the exhibit.

THE ASIATIC DOGWOOD.

In his current bulletin, Prof Sargent of the Arnold Arboretum, has an interesting article about *Cornus kousa*. He said:

This is the eastern Asiatic representative of the Flowering Dogwood of the eastern states (*Cornus florida*) and of the Flowering Dogwood of the northwest (*Cornus Nuttallii*). *Cornus kousa* was one of the Japanese plants which reached the United States in the early years of Japanese plant introduction into this country and although it has never become common in American gardens it is occasionally seen in the neighborhood of Boston and New York. The white bracts which surround the head of flowers and are the conspicuous feature of the inflorescence of all the Cornels of this group are narrowed and placed further apart on *Cornus kousa* than on our eastern Flowering Dogwood, and are long-pointed, and not as in the American plant rounded or emarginate at the

apex. On the American plant the end of the bract is often discolored, while in the Asiatic plant the bracts are pure white to the tips. The flower-buds of *Cornus florida* are often killed here at the north in severe winters, but the extreme cold of the winter of 1917-18 did not injure those of *C. kousa*. The Japanese plants bloom several weeks later than *Cornus florida* and when the leaves are nearly fully grown. In Japan *Cornus kousa* sometimes becomes a small tree with a single trunk, but in this country so far as we have observed it grows always as a shrub with several erect stems. *Cornus kousa* was found in central China by Wilson and plants raised from his Chinese seeds are established in the Arboretum. They are handsomer than the Japanese form, with longer and broader floral bracts set closer together and often overlapping below the middle. On the largest plant in the Arboretum the head of bracts is four inches and a half across, but in China Wilson measured them five inches across. On the Japanese plants the heads of bracts are rarely three inches and a half in diameter. The Chinese plant flowered in the Arboretum for first time two years ago, and the flower-buds have never been injured by cold. It is flowering more freely this year than it has before and is now an object of much beauty. Like the Japanese plant the Chinese *Cornus kousa* has grown here as a shrub, but there seems no reason why it cannot be trained into a tree, as in China it is a small tree with a trunk sometimes a foot in diameter. If it fails to produce seed here the Chinese plant can probably be grafted successfully on *Cornus florida*. Although the Asiatic flowering Dogwoods do not make a display of flowers as our American trees, their flower-buds are hardier judging by the effects of the winter of 1917-18, and if the future confirms this they will flower further north than *Cornus florida*. The fact that they bloom when the leaves are nearly fully grown and when the flowering time of most trees is over makes these Asiatic Cornels valuable, and it now seems probable that in the Chinese form of *Cornus kousa* the northern states have an important ornamental tree. The Japanese and Chinese plants are now in bloom, the former on Hickory Path near Centre street and the latter with the other Chinese plants on Bussey Hill.

A HORSECHESTNUT FROM JAPAN.

Aesculus turbinata, the Japanese Horsechestnut, first came to the Arnold Arboretum from France in 1881; this plant was lost, and in 1893 it was raised from seeds collected in Japan by Professor Sargent. These plants were also lost, but another supply was raised in 1900 from seeds produced by the fine specimen in the nursery of Ellwanger & Barry in Rochester, New York, and one of these plants has flowered this year. In Japan this Horsechestnut is a magnificent tree, often growing to a height of eighty or ninety feet and forming a tall trunk occasionally seven feet in diameter. Like the European Horsechestnut the leaves are composed of seven leaflets, but these are thinner and more lustrous, and the leaf-stalks are longer. The Japanese tree in summer therefore appears less dark and massive than the common Horsechestnut. The flower-clusters are narrower and the flowers, which are white with scarlet markings at the base of the petals, are handsomer. *Aesculus turbinata*, which grows to its largest size in central and northern Japan, is perfectly hardy in New England. Time only can show if it is able to live as long and grow to as large a size here as in its native country. If it succeeds here as the Horsechestnut of the mountains of Greece has succeeded during the last hundred years it will prove to be one of the handsomest exotic trees which has been planted in eastern North America. *Aesculus turbinata* is one of the five largest deciduous leaved trees of eastern Asia. The others are *Cercidiphyllum japonicum*, *Populus Maximowiczii*, *Acanthopanax ricinifolium*, and *Zelkova serrata*. These five trees are now established in the Arboretum.

CORNUS RUGOSA.

Attention is called again to the value of this common native shrub for the decoration of parks and gardens where, like many other eastern American trees and shrubs, it is rarely seen. *C. rugosa*, or *C. circinata*, the name by which it is best known, is a shrub sometimes ten feet high which with plenty of space spreads into broad thickets. The young branches are green blotched with purple, becoming purple as they grow older. The leaves are broad, sometimes nearly circular, and dark bluish-green; the flowers are ivory-white, in compact clusters, and are followed in the early autumn by bright blue or nearly white fruits. This Cornel has been much planted in the Arboretum and is greatly improved by good cultivation. It can be seen in the Cornel Group at the junction of the Meadow and the Bussey

Hill Roads; and the large individual plants, the great clumps on the right-hand side of the Bussey Hill Road beyond the Lilacs, and the masses among the Hickories in the groups of these trees show the value of this shrub in park planting when broad compact masses of foliage are needed.

—*Arboretum Bulletin*.

A GOOD COMBINATION.

Two native plants, *Cornus racemosa* and *Rosa virginiana*, or, as it is often called, *R. lucida*, are in flower at the Arnold Arboretum and the pure pink flowers of the Rose harmonize so well with the creamy white flowers of the Cornel that these two plants can well be used together in natural planting. *Rosa virginiana* is confined to the northeastern seaboard region of the continent, and in its best form is a tall shrub with lustrous leaves and pure pink flowers which now perfume the borders of the roads in some parts of the Arboretum. A beautiful floral display is also made when this Rose grows with the native Elder (*Sambucus canadensis*), as it does sometimes in the rear of Massachusetts sea cliffs.

THE NEW CLIMBING ROSE, DR. HUEY.

A new climbing rose which attracted special attention at the recent meeting of the American Rose Society in Philadelphia has been named Dr. Huey. It is a rose which seems likely to become widely distributed and prove highly

popular. It was originated by Mr. George C. Thomas, Jr., whose description is as follows:

"The new climbing rose, Dr. Huey, was bred in 1914 and is a cross between the *Wichuriana*, *Ethel*, introduced by Turner in 1912, and *Gruss an Teplitz*. It bloomed for the first time in 1916. The great majority of bloom comes into full flower within a week, the flowers being in clusters of three or four, with an occasional single bloom. At Philadelphia the rose begins to flower the first week in June, and the blooming period lasts for three weeks.

"The bud of Dr. Huey is three-fourths of an inch long, while the open flower is a full two inches across. It has fifteen petals of dark crimson maroon, while the stamens and anthers are light yellow. The substance of the petals is medium, but the rose lasts a long time cut as well as on the bush.

"The young foliage shows its *Teplitz* blood with reddish-brown tea coloring. The old foliage is medium green in color. The value of this rose lies in its absolutely unique and distinct coloring, as it is a dark crimson maroon of great brilliancy, universally pronounced to be a different color from that of any climbing rose in cultivation."

The rose was named in honor of Dr. Robert Huey of Philadelphia, who is grown roses as a hobby for nearly a half century.



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New York—Max Schling, 785 5th Ave.

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WHAT CAUSES "BROWN PATCHES" ON THE LAWN

Objectionable "brown patches" appear on fine lawns, greenswards, and the putting greens of golf courses usually during the hot, moist weather of summer, the disease being most noticeable when the weather is hot and muggy, and on ground which is kept too moist by insufficient drainage or heavy sprinkling. The brown spots—caused by a fungus—are at first more or less circular and grow in centrifugal fashion, becoming a foot or more in diameter.

During the early morning many of the spots are covered with a fine mildew. Later in the day the border of actively growing spots is smoky green in color where the grass leaves are dying. When the disease is abundant and a merging of the spots occurs, an entire putting green often will be completely brown and appear as if dead. Peculiarly enough, with the coming of cool weather in fall most of the infested spots recover, indicating that the grass has suffered no permanent injury. However, occasional diseased spots are completely killed. Apparently the brown spots radiate in the form of a small circle from one unit and continue this process, season after season, until large circles are formed. Occasionally a green spot is found in the center, but usually the whole patch is brown.

Prevention is the practical way of decreasing the damage wrought by this turf disease, according to the United States Department of Agriculture. Preventive measures consist in providing thorough drainage, both of the surface and subsoil. Watering should be done in the morning, in the case of golf courses, the purpose being to have the courses as dry as practicable during the night. Often in spite of these precautions the disease will appear in warm, wet weather when the excess surface moisture can not be controlled. The growing of turf plants immune or highly resistant to the disease—Bermuda grass in the South and blue grass and white clover in the North—is the ideal method of prevention, but the last two are not

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the most desirable for putting greens or for lawns of superior quality. The fescues and the bents, the peers of all fine turf grasses, are markedly susceptible to the "brown patch" disease, although resistant strains are available in both these groups of grasses. It is anticipated by specialists in the United States Department of Agriculture that in the near future resistant strains of desirable grasses for putting green use will be available in amounts sufficient to satisfy all demands.

When a person is sufficiently familiar with the time of appearance and development of the "brown patches" among grass plants to forecast the occurrence of the disease, he can partially control and check its damage by persistent spraying with Bordeaux mixture, in amount just sufficient to moisten the leaves and crowns of the grass, without thoroughly wetting the ground. Frequent applications are necessary. The difficulty attending the use of Bordeaux or any similar fungicide is that as soon as it has been removed from the plants by rain or by continued mowing the fungus breaks out in new places, undeterred by the fungicide which is on the surface of the soil or on the older stems and leaves. Although the expense of using Bordeaux mixture is rather heavy, it will pay the owner to test out this measure of eradication rather than to allow the disease to spread unchecked.

As a rule, mixed grasses on putting greens or lawns are less injured than individual settings of pure-bred varieties. However, mixtures will never result in the fine turf which comes from setting such grasses as velvet bent, carpet bent, or red fescue. Incidentally the high susceptibility of mouse-ear chickweed, or "creeping Charlie" is a special reason for eradicating all patches of these plants from putting greens or high-quality lawns.

The common lawn plants seem susceptible to the brown patch disease in about this order: Mouse-ear chickweed, red fescue, red top, velvet bent, carpet bent, rough-stalked meadow grass, speedwell and yarrow. Frequently, especially in the case of mouse-ear chickweed and speedwell, the disease does not spread beyond the boundaries of the plant attacked, but in other cases several species of plants may be involved in the same spot.

At one of the leading golf courses in the District of Columbia, where the "brown patch" disease was rampant in 1916, experiments were conducted in 1917 to determine if the trouble could be prevented by the use of Bordeaux mixture. A fine putting green of German-mixed bent, measuring about 40 by 80 feet in size, was used. The disease appeared on June 13; two days later the green was watered with 300 gallons of half-strength Bordeaux mixture, a small portion of turf being left untreated as a check. No injury whatever resulted to the grass from the use of the Bordeaux. The treated area seemed to improve very quickly and within a week few spots were visible.

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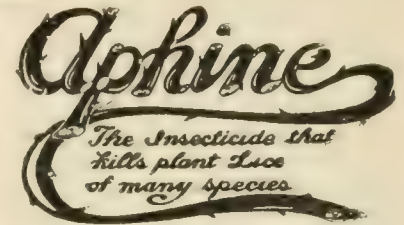
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Unfortunately, the common barberry has begun to run wild in the grain-growing districts. It has commenced to establish itself along streams, in pastures, and along roadsides, where it is in a position to do its deadly work at close range. If this spread is not checked at once, we shall probably be



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growing barberries and black stem rust but very little wheat with comparatively few years. Dig the barberry now, thus protecting the present grain crops and insuring those of the future.

Barberry bushes and hedges in villages and cities can damage distant grainfields. The rust is spread by the wind and can be blown long distances. City dwellers who have planted the common barberry can assist in protecting fields of wheat and preventing crop losses by removing their bushes. It has often been observed that barberry bushes in large cities spread rust, first to grasses near by and then onward to grainfields several miles distant. Execute this criminal bush wherever it is, because it often works secretly far from its victims, the grainfields and the grain growers.

The mahonia, or Oregon grape is closely related to the barberry. It also may rust and should be destroyed. This bush has compound, hollylike leaves, which often are spine pointed. The berries are bluish. It is found wild from the Rocky Mountains westward and is cultivated somewhat in the eastern United States.

COMING EXHIBITIONS.

Will secretaries please supply any omissions from this list and correct dates that have been altered:

July 5-6, Boston, Mass.—Exhibition of sweet peas of the Massachusetts Horticultural Society. Wm. P. Rich, secretary, Horticultural Hall, Boston, Mass.

August 9-10, Boston, Mass.—Exhibition of gladioli and phlox by Massachusetts Horticultural Society. Wm. P. Rich, secretary, Horticultural Hall, Boston.

September 9-11, Hartford, Conn.—Fall flower show of the Connecticut Horticultural Society. Alfred Dixon, secretary, Wethersfield, Conn.

September 11-14, Boston, Mass.—Dahlia, fruit and vegetable exhibition of the Massachusetts Horticultural Society. Wm. P. Rich, secretary, Horticultural Hall, Boston.

September 16-17, Ardmore, Pa.—Exhibition of dahlias, outdoor cut flowers and vegetables of the Pennsylvania Horticultural Society. David Rust, secretary, 606 Finance Building, Philadelphia.

September 18-19, Providence, R. I.—Dahlia show of the Rhode Island Horticultural Society. E. K. Thomas, secretary, Kingston, R. I.

September 23-25, New York—Dahlia exhibition under the auspices of the American Institute of the City of New York and the American Dahlia Society at the Engineering Society building, 25-33 West 39th street. Wm. A. Engleson, secretary board of managers, 322 West 23rd street, New York.

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Russell, Hadley	8.00	to 15.00	5.00	to 30.00	6.00	to 10.00	6.00	to 30.00
Killarney, Ward	3.00	to 10.00	5.00	to 15.00	3.00	to 8.00	4.00	to 12.00
Radiance, Taft, Key	6.00	to 15.00	5.00	to 25.00	3.00	to 10.00	6.00	to 12.00
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Lilies, Longiflorum	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00	20.00	to 25.00
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Pansies	1.00	to 1.50	.50	to 1.00	.50	to 1.00	4.00	to 6.00
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Wallflowers	to	1.00	to 2.00	to	to
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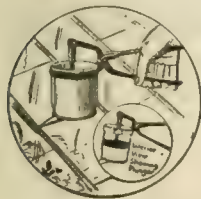
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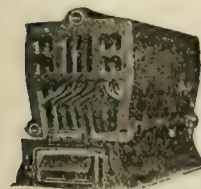
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somest species, but crossed with the
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D. Lemoinei which has inherited much
of the hardiness of its Chinese parent
and proved to be an excellent garden
plant here. It is a shrub sometimes
five or six feet tall and broad, which
every year about the middle of June
covers itself with large clusters of pure
white flowers. There are several
smaller and more compact forms of
this hybrid in the collection and they
are all good garden plants. Another
Chinese Deutzia, D. hypoglauca, is a
handsomer plant than D. parviflor-
and, judging by its behavior in the
Arboretum during the last three years,
it is equally hardy. Another Chinese
species, D. grandiflora, is the first of
the genus to bloom here. It is a
dwarf plant with large flowers in from
one to three-flowered clusters. Al-
though known to botanists since 1832,
it has only recently found its way into
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which have been injured in previous
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flowers this summer and, if they could
be depended on to flower as well every
year, would be important additions to
New England gardens. Among the
Chinese species which have flowered
here abundantly for the first time are
D. globosa, D. Wilsonii, D. discolor, D.
discolor major and D. longifolia. The
last in one of its forms has been cov-
ered with large loose clusters of pale
pink flowers and proves to be the
handsomest of the new Chinese spe-
cies, although D. globosa with its
erect stems thickly covered toward
the ends with clusters of pure white
flowers has been almost as attractive.

NATIVE AZALEAS.

As the flowers of the yellow-flowered
Appalachian Azalea (R. calendulace-
um) begin to fade the first of those of
Azalea arborescens open. This is a
handsome plant, and the beauty of the
pure white fragrant flowers is in-
creased by the bright red color of the
long filaments and style. This is also
an Appalachian plant, and sometimes
at an elevation of about 5,000 feet cov-
ers with dense thickets only a few
feet high and sometimes an acre in
extent the treeless summits of Blue
Ridge Mountains, and in their shel-
tered valleys sometimes grows into
great arborescent bushes twenty feet
tall and so justifies its name.

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